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Degree Programmes 1969-1970

FACULTY OF ARTS & SCIENCE

FACULTY OF APPLIED SCIENCE & ENGINEERING

FACULTY OF FOOD SCIENCES (Type A)

SCHOOL OF NURSING

COURSES BEGIN

Winter Session September 22, 1969
Summer Evening Session May 19, 1970
Summer Day Session July 6, 1970

University and Faculty Officers (Partial Listing)

1968-1969

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Director of University Extension G. H. Boyes, M.A.
Warden of Hart House E. A. Wilkinson, B.A.
Director of Athletics and Physical Education —Men
Director of Athletics and Physical Education —Women

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Dean	A. D. Allen, B.SC., PH.D.
Associate Dean	A. C. H. Hallett, B.A., PH.D.
Associate Dean	G. A. B. Watson, M.A., S.T.B.
Assistant Dean and Secretary	W. D. Foulds, B.A.
Associate Secretary	R. B. Oglesby, C.D., M.A.
Assistant Secretary	C. R. C. Dobell, B.A.

SCHOOL OF NURSING

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Associate Director	M. Kathleen King, M.S.N.
Counsellor	J. Dalziel, B.A., M.A.
Secretary	Miss E. G. Burgess

FACULTY OF APPLIED SCIENCE & ENGINEERING

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Assistant Secretary	W I Dowkes BASC

DEGREE PROGRAMMES, EXTENSION

Assistant Director E. M. Gruetzner, B.A.
Senior Counsellor A. R. Waugh, B.A.
Counsellors Miss Iris Hosse, B.A.
J. MacMillan, B.A.
M. B. Ross, B.A.
W. H. Bateman, B.A.
Supervisor Information Centre Mrs. Dorothy M. Deane, B.A.
Assistant G. B. Miller
Registration Mrs. M. M. Pearson

For Information on Degree Programmes:

Telephone: 928-2405 (8:45 a.m. - 5:00 p.m.)

928-2394 (5:00 p.m. - 8:00 p.m. Mon. - Thurs.)

Schedule of Dates

Winter Session

August 15

	1970, Date will be August 1.)
September 10	Last day for acceptance of registration forms without late fee.
September 15	Last day for acceptance of registration forms with \$10.00 late fee.
	Lectures & Laboratory classes begin in the Faculty of Applied Science & Engineering.
September 22	Lectures & Laboratory classes begin in Faculty of Arts & Science.
September 30	Last day for acceptance of registration forms with \$20.00 late fee.
	After September 30, registration for Winter Session 1969-70 will not be permitted.
October 13	Thanksgiving Day (lectures cancelled).
October 14	Last day for change of course

Last day for new and special students to apply for admission. (For

November 14
November 15
November 30
Last day for change of course.
Fall Convocation.
Last day for withdrawal from Fall half course without academic penalty.
Last day for students with supplemental privileges to apply to write the

November 30 Last day for students with supplemental privileges to apply to write tannual examinations.

December 19 Last day of lectures (First Term).

January 5 Second Term begins.

February 15 Last day for withdrawal from Winter Session (or Spring half course) without academic penalty.

February 15-21 Reading week — lectures & laboratory classes will not be held.

April 11 Last day of lectures.

April 20 to May 8 Annual Examinations.

May 29 Start of University Commencement.

Summer Evening Session 1970

April 1 Last day for new & special students to apply for admission.

May 1 Last day for acceptance of registration forms without late fee.

SEPTEMBER	OCTOBER	NOVEMBER
1 2 3 4 5 6	1 2 3 4	1
7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
		30
DECEMBER	JANUARY	FEBRUARY
1 2 3 4 5 6	1 2 3	1 2 3 4 5 6 7
7 8 9 10 11 12 13	4 5 6 7 8 9 10	8 9 10 11 12 13 14
14 15 16 17 18 19 20	11 12 13 14 15 16 17	15 16 17 18 19 20 21
21 22 23 24 25 26 27	18 19 20 21 22 23 24	22 23 24 25 26 27 28

May 8

Last day for acceptance of registration forms with \$10.00 late fee.

May 15

Last day for acceptance of registration form with \$20.00 late fee. After May 15, registration for Summer Evening Session 1970 will not be permitted.

May 19

Summer Evening Session begins.

June 1

June 30

Last day for change of course.

Final date for withdrawal from Summer Evening Session without

academic penalty.

Dominion Day (all lectures cancelled).

July 10 Last day for students with supplemental privileges to apply to write the

August examinations.

Civic Holiday (all lectures cancelled).

August 14 Last day of lectures.

August 17-21 August Examinations.

Summer Day Session 1970

June 30

July 6

July 10

July 13

August 1

August 3

August 14

August 17-21

July 1

August 3

May 15
Last day for new & special students to apply for admission.

June 18
Last day for acceptance of registration forms without late fee.

June 25
Last day for acceptance of registration forms with \$10.00 late fee.

Last day for acceptance of registration forms with \$20.00 late fee. After this date, registration for Summer Day Session will not be permitted.

Summer Day Session begins.

Last day for students with supplemental privileges to apply to write the August examinations.

Last day for change of course.

Last day for withdrawal from Summer Day Session without academic penalty.

Civic Holiday (all lectures cancelled).

Last day of lectures.

August examinations.

MARCH	APRIL	MAY
1 2 3 4 5 6 7	1 2 3 4	1 2
8 9 10 11 12 13 14	5 6 7 8 9 10 11	3 4 5 6 7 8 9
15 16 17 18 19 20 21	12 13 14 15 16 17 18	10 11 12 13 14 15 16
22 23 24 25 26 27 28	19 20 21 22 23 24 25	17 18 19 20 21 22 23
29 30 31	26 27 28 29 30	24 25 26 27 28 29 30
		31
		01
JUNE	JULY	AUGUST
JUNE 1 2 3 4 5 6	JULY 1 2 3 4	
		AUGUST
1 2 3 4 5 6	1 2 3 4	AUGUST 1
1 2 3 4 5 6 7 8 9 10 11 12 13	1 2 3 4 5 6 7 8 9 10 11	AUGUST 1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	AUGUST 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



84 QUEEN'S PARK
THE HOME OF UNIVERSITY EXTENSION



47 QUEEN'S PARK

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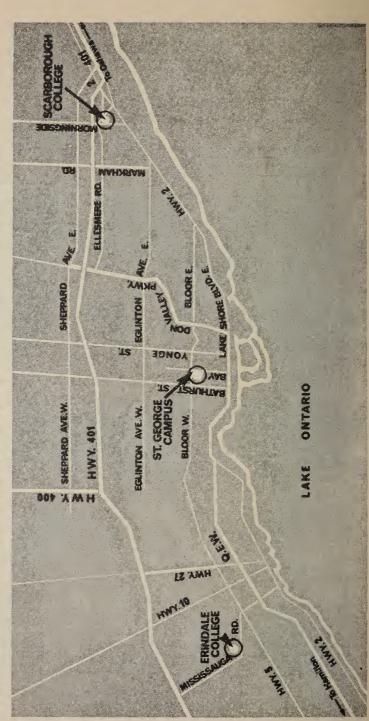
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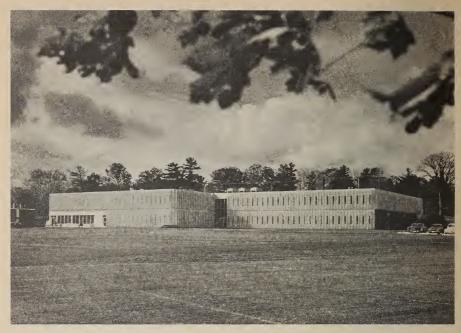
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UNIVERSITY OF TORONTO CAMPUS LOCATIONS



Introduction

The objective of the Division of University Extension is to make available the resources of the University of Toronto to adults who are prepared to engage in systematic study. In a technological society in which rapid change is a constant influence, education is a continuing and life-long process. The effect of this change requires not only greater numbers of highly trained specialists, but also generalists equipped to understand and to integrate specialist functions. The new programme in Arts and Science allows the student to pursue his own intellectual interests and abilities through the individual structuring of his programme of study. The principle that all students should be allowed access equally to academic resources of the highest quality and the greatest range in order to fulfill their academic interests is the underlying basis of the new programme. There are approximately twenty thousand extension students engaged in part-time study at the University of Toronto. Many of these students are registered in programmes of study leading to a University of Toronto degree or certificate. Others are registered in non-degree courses in the business and professional areas and in the liberal arts. A large number of students pursue courses by correspondence. This calendar provides information on degree programmes for men and women who may wish to continue their education and development through part-time study. For information on the other educational opportunities available to part-time students, contact The Division of University Extension, University of Toronto.



ERINDALE COLLEGE



SIDNEY SMITH HALL

Full details on undergraduate admissions are found in the Admissions Circular 1969-70, which is available at the Office of Admissions, Simcoe Hall, University of Toronto.

All inquiries regarding admission requirements should be addressed to the Office of Admissions, Simcoe Hall, University of Toronto.

Classification of Students

There are two categories of students enrolled in Degree programmes in the Division of University Extension.

REGULAR STUDENTS: Those who, through part-time study, are proceeding to a degree of the University of Toronto in the Division of University Extension.

SPECIAL STUDENTS: Those who are not proceeding to a degree of the University of Toronto in the Division of University Extension. They may enrol in individual subjects for credit at other universities or other faculties within the University of Toronto.

Candidates for admission as a Regular or Special Student may be admitted to the University of Toronto in one of the following ways:

- △ with an Ontario Grade 13 (or equivalent) certificate.
- As a mature student with less than the full admission requirements. Mature students must be proceeding, however, to a degree at the University of Toronto.
- △ with an acceptable undergraduate degree from a recognized university.

In all cases, admission depends upon the candidate having a sufficiently high standing to compete successfully for one of the places available.

Grade 13 Requirements

Ontario A minimum overall of 60% is required for consideration. For admission to the Faculty of Applied Science & Engineering 64% is required. The following Grade 13 subjects (or their equivalents) are approved subjects for purposes of admission to this University:

> Biology; Chemistry; Physics; Geography; History; Music; One-credit:

Art. A candidate may not offer both Music and Art.

English; French; German; Greek; Hebrew; Italian; Latin;

Russian; Spanish; Mathematics A (alone).

Three-credit: Mathematics A and B (two subjects).

Candidates are required to offer standing in at least four Grade 13 subjects comprising at least seven credits.

ARTS & SCIENCE PROGRAMME: Two of English, another language, Mathematics A; and at least two optional subjects comprising three credits.

THE ENGINEERING PROGRAMME: Mathematics A & B, Physics, Chemistry and two additional credits.

THE DEGREE COURSE FOR GRADUATE NURSES: English or History; Chemistry or Biology, and optional subjects to bring the total number of credits to seven. NOTE: Graduate nurses who left high school in 1966 or previously do not require Chemistry. Both Chemistry & Biology are recommended.

GENERAL ONTARIO GRADE 12 PRESCRIPTION: Ontario Grade 13 candidates are strongly recommended to have Grade 12 standing in at least six subjects (excluding Physical Education). The subjects chosen must include at least five of the following subjects and at least one subject from each of the four groups:

- (i) English.
- (ii) French; German; Greek; Italian; Latin; Russian; Spanish.
- (iii) Geography (Parts 1 and 2); History (Parts 1 and 2).
- (iv) Mathematics (Parts 1 and 2); Science (Physics and Chemistry).

Each candidate who applies for admission to the First Year directly from a secondary school in Ontario must take appropriate aptitude and achievement tests.

EQUIVALENT CERTIFICATES: Candidates submitting High School or Senior Matriculation certificates other than Ontario Grade 13 are advised to write the Office of Admissions, University of Toronto, for specific details on the subjects or standards required. Candidates seeking admission on the basis of certificates which are in a language other than English, must submit photostatic copies of their certificates, rather than the original copies. Notarized English translations of the certificates must accompany the photostatic copies. When the certificates do not indicate the subjects studied and the grades secured in the individual subjects in the final year, candidates are required to submit certified statements from authorized officials of the institutions attended, or submit statutory declarations giving the required information.

Applications for admission to the 1970-71 winter session must be received by the admissions office by August 1, 1970. New students will be admitted to the Faculty of Applied Science and Engineering and School of Nursing in the Winter Session only. Interested students are advised to apply early.

Students

Mature A candidate of mature age (25 years or older on October 1 of the Winter Session or July 15 of the Summer Session) who has lived in Ontario for a minimum period of one year and is normally resident in Ontario, may request special consideration for admission to the Arts and Science Programme if he has a minimum of 66% in at least one Grade 13 subject and obtains standing in such other tests as may be required.

> For the Degree Course for Graduate Nurses the candidate must have 60% in two of either Grade XIII English or History and either Chemistry or Biology.

> For the Engineering Programme the candidate must have standing in Grade 13 or equivalent; Mathematics A and B, Physics and Chemistry.

> Each mature candidate will be evaluated individually in order to determine his admissibility. A birth certificate must be submitted with the application. Possession of the minimum requirements does not ensure selection.

English Requirements

All applicants are required to submit evidence acceptable to the Univer-Facility sity of Toronto of facility in English. Candidates whose mother tongue is not English may be required to meet an appropriate standard in a recognized English facility test. The following evidence is acceptable:

- a) The University of Michigan English Language Test. Enquiries about writing the test in Toronto should be addressed to the Office of Admissions, Simcoe Hall, University of Toronto.
- b) The Certificate of Proficiency in English issued by the Universities of Cambridge or Michigan.
- c) The University is prepared to consider other evidence of English facility which may be submitted for evaluation to the Office of Admissions.

Standing

Admission An undergraduate of another university or of another faculty in this with Advanced university may be admitted to advanced standing on such conditions as may be prescribed.

Transfers Students who wish to transfer to full-time studies are advised to consult with the office of Assistant Director of Extension before May 15, 1970. Normally, students are required to complete all the subjects in a year before transferring to the next year.

Full-time students who wish to transfer to part-time studies should consult with the Registrar of their college or the Secretary of their faculty.

NOTE: All Engineering students will be required to transfer to full-time studies after the completion of the First Year in order to continue with their degree studies.

CANDIDATES WHO HAVE PREVIOUSLY FAILED UNIVERSITY WORK: Candidates who have previously failed to secure the right to advance to a higher year at an institution of higher learning, may be considered for admission under exceptional circumstances. Candidates who have two previous failures are normally refused admission.

Financial Assistance

Applications are to be sent to the Secretary, the Division of University Extension prior to August 15 for the winter session and to May 1 for the summer session.

THE DIVISION OF EXTENSION ALUMNI AWARD The Division of University Extension Degree Section Alumni will make an annual contribution to assist degree students of the Division.

Each award to the value of \$25.00 will be granted to students in the Faculty of Arts and Science who have completed at least four first year subjects in the Division of University Extension, who obtained a minimum overall average of 66% and who have demonstrated the need for financial assistance. The award is available only to students who have not received other financial assistance in the session in which the award is made. Normally one award will be made in the winter session and one award in the summer session.

THE WILLIAM JAMES DUNLOP BURSARY As a tribute to the long services of the late Dr. W. J. Dunlop, who for thirty years was Director of the Division of University Extension, and in appreciation of his leadership in education in Ontario, colleagues and associates, on his retirement in June 1951, established a fund in the Faculty of Arts and Science to be known as the William James Dunlop Bursary.

The Bursary, of the value of \$100, is available to elementary school teachers who have credit for at least two subjects in the Pass Course for Teachers or the General Arts Course as students of this Division. Preference will be given to students from Northern and Northwestern Ontario. To be eligible, a student must enrol for two or more subjects in the Summer Session immediately following the award. This Bursary may be held only once by any student. Application must be made by April 15.

IFAC/IFIP AWARDS The International Federation on Automatic Control and the International Federation on Information Processing in conjunction with the Division of University Extension have offered these awards to students who have completed the First Year Programme in Engineering through the Division of University Extension, and who enter second year in full-time study as candidates for the degree of Bachelor of Applied Science. The awards will be given on the basis of academic standing (a minimum overall 66% average) and financial need. The award is of the approximate value of the tuition for one academic year.

It is expected that the first award(s) under these conditions will be made in 1971.

Financial Assistance

INCO BURSARIES For several years the International Nickel Company of Canada has offered a number of bursaries to secondary school teachers who have degrees, but require further work in Mathematics and Science. The bursaries are usually offered for the Summer Session only, however, there will be Inco Bursaries available for the coming Winter Session 1969. The amount of each bursary is \$250.00.

In April, applications and details are mailed to all high schools in Ontario. Applications for the additional bursaries that are available for the Winter Session 1969 must be received by the Secretary, Division of University Extension before August 15.

THE HARRIET M. LATTER BURSARY The Harriet M. Latter Bursary, in memory of the first Secretary of the Division of University Extension, of the value of approximately \$200, is available annually to a teacher enrolled in the General Arts Course who has completed, with reasonably good standing, at least four subjects in that Course as a student of this Division. On the recommendation of the Director, Division of University Extension, this Bursary will be awarded to a student wishing to enrol in University College or in the School of Graduate Studies. Applications must be received before September 15.

UNIVERSITY WOMEN'S CLUB OF ETOBICOKE BURSARIES Through the generosity of the University Women's Club of Etobicoke, four bursaries valued at \$50 each will be awarded in 1969-70 Winter Session and the 1970 Summer Session. (Two each Session.)

The bursaries will be awarded on the recommendation of the Director, Division of University Extension to women students who have completed at least two subjects in a degree programme in the Division of University Extension with a satisfactory average and who show evidence of financial need. Applications must be received before September 15 for the Winter Session and May 1 for the Summer Session.

THE VARSITY FUND Through the generosity of the Varsity Fund, 6 bursaries of the value of \$200.00 each will be available to students who have successfully completed at least 2 courses in the Division of University Extension and who are proceeding towards a degree at the University of Toronto. The awards will be given on the basis of academic standing (a minimum overall 66% average) and financial need.

The first award will be made in the Winter Session 1969. Subsequently awards will be made for each session: Summer Evening, Summer Day and Winter Session.

The first award will be made in the Winter Session 1969. Subsequently awards will be made for the Summer Evening Session and Summer Day Session. This award may not be offered annually.

Further information and application forms for the above Bursaries are available from the Director, Division of University Extension, 84 Queen's Park, Toronto 181.

Application Procedures

Students should distinguish between application for admission to the university and registration for courses. These are two separate procedures.

NEW STUDENTS must first apply for admission and provide evidence of meeting the admission requirements for their course before registering for specific subjects. In addition, a ten dollar (\$10.00) non-refundable service fee is required of all applicants except those in full-time attendance in the final year of a Canadian Secondary School or those whose last academic work was done at the University of Toronto. This fee must be remitted by money order or certified cheque (payable to the University of Toronto) and should accompany the completed application.

Upon receipt of a letter of admission from the Registrar which indicates admissibility to the University, the student may register for the specific subject(s) in which he wishes to enroll.

RETURNING REGULAR STUDENTS who have previously obtained standing in the Division of University Extension (Degree Courses) need not re-apply for admission but are required to register each session for courses in which they wish to study.

RETURNING SPECIAL STUDENTS must apply for admission to each session they wish to attend.

Candidates who are uncertain as to whether they meet the published admission requirements should communicate with the Office of Admissions, Simcoe Hall, University of Toronto, giving full details regarding their academic standing, before submitting formal applications.

Application forms are available from the Office of Admission, University of Toronto, 928-2191, or the Division of University Extension, 928-2405. Please indicate whether you wish a Special Student or a Regular Student application form. (See classification of students, p. 11.)

REGULAR STUDENTS Documents to be sent with the application form are:

- 1. The Ontario Grade 13 Certificate or an equivalent Certificate.
- 2. Birth certificates must be submitted by students seeking admission under the mature student regulation.
- 3. Students seeking admission to the Degree Course for Graduate Nurses must submit a transcript of professional training from a recognized Diploma School of Nursing.
- 4. In addition to the above, a student who has previously attended a university must submit an official transcript of record from any university previously attended.
- 5. Any other evidence of ability to take the work proposed.

SPECIAL STUDENTS Applicants applying for admission as a Special Student must submit a Special Student application form with the required documents as shown above.

A special student from another Ontario University must substitute for the above certificates, a letter from the authorities of his own university approving his enrollment in this course.

FINAL DATES FOR APPLICATION Both Regular and Special students must send completed application forms with the required documents before the following dates:

Winter Session August 15, 1969
(Effective 1970 final date will be August 1)

Summer Evening Session April 1, 1970

Summer Day Session May 15, 1970

Registration Procedures

Registration REGULAR STUDENTS

New Students must apply for and receive a letter of admission to a Degree programme in the Division of University Extension before registering for courses. Upon receipt of the letter of admission from the Registrar of the University, the student may then register.

Returning Students will receive by mail, the necessary registration information and forms by August 15 for the Winter Session and April 1 for the Summer Session.

SPECIAL STUDENTS

Special Students must apply for admission to each session before registering for courses. Registration material will be mailed with letters of admission.

Students should complete the registration form as instructed and return it with fees in full to the Chief Accountant, 215 Huron Street, University of Toronto, Toronto 181.

Please indicate clearly the course number, and the campus on which you intend to take the subject.

It is the responsibility of the student to ensure that courses he chooses meet the academic requirements for the degree.

Admit-to-lectures cards will be issued promptly for the courses selected, but it is the responsibility of each student to choose courses that comply with published regulations. Students should be prepared to present admit-to-lectures cards when borrowing books from the Library, or writing examinations.

It is of the utmost importance that every detail of the Admit-to-Lectures Card be correct. Discrepancies, if any, should be reported promptly and the card returned for correction.

Changes of address are to be reported immediately.

FINAL DATES FOR REGISTRATION Students should register before the dates indicated below.

Winter Session September 10, 1969 Summer Evening Session May 1, 1970 Summer Day Session June 18, 1970

Students who register after these dates will be subject to a late registration fee. (See Fees Section below.)

Registrations will not be accepted after September 30, 1969, May 15 or June 30, 1970 as applicable.

Registration and Fees forms, together with cheque for fees in full, payable to the University of Toronto at par, Toronto, should be mailed to the Chief Accountant, University of Toronto.

Students are held financially responsible for the full fee of all courses in which they enrol unless they notify the Assistant Director, Division of University Extension, in writing, within four weeks of the date of withdrawal.

Fees	ACADEMIC FEE, each subject	\$95.00
	Association of Part-Time Undergraduate Degree Students	
	(each session)	2.00
	SUMMER PROGRAMME FEE*	
	Summer Day Session	5.00
	Summer Evening Session	2.00

LATE FEES

For registration from September 11 to September 15 inclusive for the Winter Session, May 2 to May 8 inclusive for the Summer Evening Session and June 19 to June 25 inclusive for the Summer Session 10.00

*Summer Programme Fee. Students registered in the Summer Evening Session who also register in the Summer Day Session need pay only an additional \$3 for summer activities. When registering for the Summer Day Session the student must indicate on his Summer Day Session Fees form the date and receipt number of the original \$2 payment.

For registration from September 16 to September 30 inclusive for the Winter Session, May 9 to May 15 inclusive for the Summer Evening Session and June 26 to June 30 inclusive for the Summer Session	20.00
For late examination application A fee of \$1 per day to a maximum of \$20.	
SUPPLEMENTAL EXAMINATION FEE	
one subject	
each additional subject	5.00
OUTSIDE CENTRE EXAMINATION FEE one subject each additional subject	10.00
(These fees are in addition to any supplemental fees that may be applicable.)	
FEE (per subject) TO RE-CHECK EXAMINATION RESULTS	5.00
(This fee will be refunded if an error in reporting the mark is detected.)	
fee for transcript of record† for each additional copy ordered at the same time	1.00 0.25

†Transcripts of Record.

A student who requires proof that he has obtained standing in one or more courses in an Extension degree programmes should apply for an official transcript of his record. The fee is \$1 for the first copy and 25c for each additional copy ordered at the same time. Standard request forms may be obtained from the Assistant Director, Division of University Extension.

Students are requested to notify the Division of University Extension of changes of address in order that our mailing lists may be kept current.

association of part-time undergraduate degree students

In the Spring of 1968 a questionnaire administered to the Extension student body revealed overwhelming support for an association of part-time students. A steering committee worked for many months and in September the Association was officially sanctioned by the Caput. In the late Fall, elections were held and class representatives (volunteers) elected an executive committee of 12.

The purpose of the Association is to act as a communication link between part-time degree students and the University community, and between the students themselves. It is essential that we speak collectively or we shall be controlled by the whims of the full-time students who are not familiar with our special needs.

In the last year the Association has secured representation on numerous decision making bodies where the voice of Extension students has never been heard before. Ensure the continuity of representation by supporting your Association, be a class representative.

From September 1969 a fee of \$2 per session to a maximum of \$4 (in an academic year) will be levied to cover the cost of disseminating information and acting on your behalf. Any financial surplus will be returned to the students through much needed bursaries. Please phone the APUDS office at 964-1535 for further information.

Academic Counselling

Students entering the University for the first time should meet with an academic counsellor in the Division of University Extension to discuss their academic programme. These students may arrange an appointment for counselling with a staff member of the Division. Counselling hours are arranged to meet the requirements of each student and are held at 84 Queen's Park. For counselling appointments, please telephone 928-2405.

Writing Laboratory

The Writing Laboratory is a service designed to help students write more effectively. The staff of the Writing Laboratory will work with individual students as editorial consultants, analyzing their written work to help them overcome problems in the organization of ideas, sentence structure, word choice and the documentation of research sources. With the exception of an introductory lecture, the work of the Writing Laboratory is conducted in individual interviews on the basis of work in progress. Appointments for interviews should be arranged by telephoning 928-8600.

Language Laboratory

The Language Laboratory is equipped so that students may work on perfecting their pronunciation in various languages through the use of recorded material, with self correction furnished by the listen-playback method, plus extra correction by experienced lab instructors. Hours of operation for the Language Laboratory will be announced in class at the beginning of each session.

Facilities

Library For complete details on Library services, please consult the Student's Guide to the University Library, which is available on request from the Central Library.

> Access to a substantial collection of books is essential to students enrolled in a degree programme. To familiarize students with the library system and to assist them to make the most efficient use of resources available, library orientation classes will be held during the first few weeks of lectures each session. Announcements regarding times and dates will be distributed at the beginning of each session.

ST. GEORGE CAMPUS

1. The University library provides a special collection of books for Extension students, registered in Degree Courses and in Certificate Courses. These books have been selected from recommended reading lists for undergraduates and are housed at 47 Queen's Park Crescent for the exclusive use of Extension students who may borrow them for a period of one week.

- 2. Books from the general reserve collection in the Wallace Room (Humanities and Social Sciences) and in the Science and Medicine Department may be borrowed for overnight, three days or seven days, unless otherwise restricted.
- 3. Books from the Central Library stacks may also be borrowed by Extension students for a period of one week, unless otherwise restricted.
- 4. The Engineering Library will be available to Extension students enrolled in the First Year Programme in Engineering.

SCARBOROUGH AND ERINDALE CAMPUSES

Students will have access to the libraries at Scarborough and Erindale Colleges. A library orientation tour will be held at the beginning of each session to acquaint students with library facilities. Students at the Scarborough and Erindale Campuses also have library privileges at the Central Library on the St. George Campus.

HOURS OF SERVICE - WINTER SESSION

St. George Campus — Main Library

Monday - Friday: 8:30 A.M. to Midnight Saturday: 9:00 A.M. - 5:00 P.M.

Sunday: 1:00 P.M. - 10:00 P.M.

47 Queen's Park

Monday - Thursday: 12:30 Noon - 11:00 P.M.

Friday: 12:30 Noon - 6:00 P.M. Saturday: 9:00 A.M. - 5:00 P.M. Sunday: 1:00 P.M. - 10:00 P.M.

Scarborough and Erindale Campuses

Monday - Thursday: 9:00 A.M. - 10:00 P.M.

Saturday: 10:00 A.M. - 4:00 P.M.

Students registering for the Summer Day or Evening Session should consult the Summer Student's Handbook for information regarding library hours and services available during the Summer Session.

Facilities

Bookstore WINTER SESSION Books may be purchased at the University of Toronto Bookroom and Textbook Store on the St. George Campus, the Scarborough College Bookstore and the Erindale College Bookstore. In addition to the regular hours of service from 8:45 - 5:00 P.M. Monday -Friday, the bookstores will be open in the evening as follows:

St. George Campus (September 22 - October 4) Monday - Thursday: 8:30 A.M. - 9:00 P.M.

Friday: 8:30 A.M. - 5:00 P.M.

Saturday, September 27 and October 4: 11:00 A.M. - 3:00 P.M.

Evening hours at both Scarborough and Erindale will be arranged as required.

SUMMER SESSION In addition to the regular service during the day, the bookstore will be open on evenings as required. Details on Summer Evening and Summer Day Session hours will be published in the Summer Student's Handbook.

Dining Facilities Winter Session

Dining facilities are available for students who wish to come to classes directly from their place of employment. On the St. George Campus, students may use the following facilities: New College Dining Hall, Hart House Great Hall (Men only), Women's Union, University College Refectory. The Cafeterias at Scarborough and Erindale Colleges will also provide food service in the evenings.

Parking Regulations

Students are urged to use public transportation to the St. George Campus, as parking is limited on or near the campus. A fee of 50c is charged for parking facilities on the main campus. After 7:00 p.m. a fee of 25c is charged at the parking lots on campus.

Recreation Women students proceeding to the degree may take out membership in and Athletics -- the activities of the Benson Building (Women's Athletic Building) at a Winter Session cost of \$18. Apply at the office of the Benson Building.

> Men students may join Hart House as special undergraduate members at a fee of \$30. This entitles them to join the Glee Club, Camera Club, art classes and many other special interest groups. Apply for membership at the Graduate Office on the main floor.

> A limited number of athletic memberships are available on application at the Athletic Office at an additional fee of \$17 for the academic session.

Summer From the beginning of the Summer Day Session in July, a variety of Activities extracurricular activities and services will be offered for students registered in summer evening or day classes. These include an information centre, athletics, "Hart House Wednesday Night," concerts, lectures, discussion interviews, a summer school choir and a Weekly Bulletin. Please consult the Summer Student's Handbook for complete details on activities and services available during the Summer Session.

Residence Accommodation

Rochdale College opened in September, 1968, and offers student accommodation of varying forms. Single and double rooms, suites, and apartments are offered at reasonable rates. Total accommodation provides for about 850 students, both male and female. A large cafeteria is contained within the building. Students may take advantage of the educational programme of Rochdale College on either a full or parttime basis if they so desire. Rochdale College is operated on the Co-operative System. Since the University of Toronto has no official connection with Rochdale College, all inquiries should be addressed direct to: Rochdale College, Reservations Office, 395 Huron Street, Toronto 181. Telephone 921-3168.

Summer Session Residence Accommodation

Many students prefer to live near or on the campus during the Summer Session. Reservations for rooms should be made early. It is suggested that interested students write for full information about the availability and cost of accommodation not later than March. Women students may apply to any of the following: Bursar, Victoria College; Dean of Women, University College; Bursar, Trinity College; Dean of Residence, St. Joseph's College; Dean of Residence, Loretto College; Residence Supervisor, University of Toronto Residences.

Men students may write to: Bursar, Victoria University; Dean of Men, University College; Bursar, Trinity College; Director of Summer Residence, St. Michael's College; Dean of Students, New College; Bursar, Massey College; Secretary of Devonshire House.

Students wishing accommodation in other than University or College residences should mail inquiries to: Housing Service, 134 St. George St., Toronto 181, Ontario for a list of rooming houses, flats, apartments and homes near the campus.

For detailed information regarding services and facilities available on campus, please consult the *Summer Student's Handbook* which will be mailed to each student with his A.T.L. card.

Accommodation

Falconer Hall Annex, 47 Queen's Park Crescent

In addition to the administrative offices and lecture rooms at 84 Queen's Park, other accommodation is provided at 47 Queen's Park Crescent.

This new location provides accommodation for the Certificate Course in Public Health Nursing, an extension to the Wallace Room which houses the Extension library, a reading room and a lounge for adult students.

Students in Degree, Diploma and Certificate Courses may avail themselves of the facilities at 47 Queen's Park Crescent.

During the Winter Session the building is open from 9:00 a.m. to 11:00 p.m. Monday to Thursday, 9:00 a.m. to 6:00 p.m. Friday, 9:00 a.m. to 5:00 p.m. Saturday, and 1:00 p.m. to 10:00 p.m. Sunday.

The night telephone number at Extension Division is 928-2393 (5 p.m. to 8:30 p.m.).

Parking Limited parking is available on the campus. Students are advised to use public transportation if possible.



ST. GEORGE CAMPUS

Pre-University Courses

Purpose

The Division offers three pre-university courses, Mathematics, Chemistry, and English. They are similar to Grade 13 Mathematics, Chemistry and English but require the type of performance which will be expected of applicants in the first year of University study in Arts and Science.

These courses are designed to assist persons who wish to become eligible as "mature" students for admission to the University of Toronto. They may also serve as refresher courses for persons who desire preparation for more advanced courses. In addition, the mathematics course is intended to assist students whose graduate study involves the use of statistics and calculus and who feel that they need a stronger foundation in mathematics.

Diploma Course in Translation

Purpose

FRENCH - ENGLISH - FRENCH. The University of Toronto has responded to the growing demand for competent translators by introducing a Diploma Course in Translation in September of 1969. The programme is designed for both French and English speaking students and provides a formal training for aspiring translators. The diploma will provide access to membership in the professional associations of Canadian interpreters and translators.

The programme is designed to achieve a close relationship between the theoretical and practical applications of translating. While the stress is on comparative linguistics and stylistics, students will also learn to express themselves in the working language of translation through creative writing.

The Division of University Extension of the University of Toronto offers evening and part-time courses leading to the degree of Bachelor in the Faculty of Arts & Science, Bachelor of Science in Nursing and the First Year courses of the Bachelor of Applied Science in Engineering. Students proceeding towards a University of Toronto degree through the Division of University Extension follow the same programme of studies as do students in full-time attendance.

To facilitate understanding of the following pages the definitions of Subject and Course follow:

- (i) The subject is the topic, e.g., English.
- (ii) The Course is the specific area within the subject which is to be studied, e.g. English 100 or English 200, etc.

Programme of Studies

The use of the terms "100 level", "200 level", etc., on the following pages is merely a convenient way of indicating the number of courses an Extension student is required to complete in order to obtain the equivalent number of courses a full-time student takes in each year of attendance in day classes. A student may enroll in a maximum of five courses in any one year (September to August inclusive). In the Winter Session, a student may take a maximum of three courses. Students may take two courses in the Summer Day Session, or two courses in the Summer Day Session, and Summer Evening Session combined.

Attendance in Day Classes

Normally students attending day classes during the Winter Session must be registered in full-time studies. Students who proceed towards their degree on a part-time basis during the Winter Session attend evening classes. However, upon petition, Extension students who wish to take one or two subjects in day classes during a Winter Session may be granted permission subject to limitation of enrolment and provided that they give a satisfactory reason for their request. The permissible maximum of three subjects in one session may not be exceeded.

The requirements and regulations governing the specific degree programmes are contained in the following pages. The course descriptions and timetables are found on pages.................... Students are advised to study this calendar carefully since they are solely responsible for choosing courses which meet the various degree requirements and for following all the regulations governing their academic conduct.

New Programme

The new programme in the Faculty of Arts and Science is based on the principle that all students should be allowed to outline their own course of study and thereby develop and fulfill their own intellectual interests and abilities. The student can structure his own programme through a general or specific survey of various disciplines and courses. However, in the First Year a broad investigation of various fields is encouraged. The free choice allows the student to pursue his own varied interests without necessarily committing himself to any specific programme at such an early stage.

For all students who meet the academic requirements, programmes of study leading to a Bachelor's degree may extend over three or four years, and all students will be equally eligible to register for any subject for which they have met the academic requirements.

The details of the third and fourth year programmes are not finalized. However, as many four year courses as possible will be made available to students registered in the Division of University Extension.

The Humanities

The In general, the Humanities are concerned with the historical developities ment and contemporary aspects of human experience. Specifically, the
different disciplines within the Humanities deal with language and
culture, with intellectual, political, social, economic, religious and
cultural history, and with the arts.

The disciplines generally considered, at the University of Toronto, to fall within the Humanities include Classical Studies, East Asian Studies, English, Fine Art, French, German, History, Islamic Studies, Italian and Hispanic Studies, Slavic Languages and Literatures. (Students should realize, however, that some of these disciplines, such as History, Linguistics, and studies of particular areas and cultures, can also be considered as Social Sciences, and that Mathematics has traditionally been regarded as an integral part of humanistic education.)

The Social Sciences

The Social Sciences are defined by their subject matter and by their methods. Their basic subject is the interaction of human beings in association with one another; their basic methods are analytic and descriptive attempts to understand and predict behaviour.

The disciplines generally considered at the University of Toronto to fall within the Social Sciences include Anthropology, Political Economy (comprising Commerce, Economics and Political Science), Psychology and Sociology.

The Natural Sciences and Mathematics

Science, the study of natural phenomena, embraces a wide range of subjects that form a continuous spectrum spreading from Mathematics, Physics and Astronomy through Chemistry and Biochemistry, to the Biological or Life Sciences.

The student who seeks a broad programme of many sciences, or who wishes to specialize in a single one or in an interdisciplinary combination, should be aware of the interdependence of the sciences. All use Mathematics as an indispensable tool in developing logical frameworks of understanding from experimental facts, and in devising experimental tests of hypotheses.

Geology and the Life Sciences are regarded as "derivative sciences" in that their investigations of the earth and its organisms are built on a basic foundation of Mathematics, Physics and Chemistry.

Requirements for the Degree

To qualify for the Bachelor's degree in the Faculty of Arts & Science, a student who has ten credits or less, must obtain standing in 15 courses—five 100 level courses, five 200 level courses, and five 300 level courses.

However, with the introduction of the new curriculum, a student may substitute a 100 level course for a 200 level course and can also substitute a 100 level course for a 300 level course. A student may thus register in a maximum of seven 100 level courses.

In order to be considered as a candidate for a degree from the University of Toronto, a student must obtain standing in his last five courses at this University.

First Year Programme

- a) A student shall be said to have completed a First Year programme when he has obtained standing in five courses designated as being available to First Year students.
- b) A student may NOT begin any courses NOT offered to First Year students until he has either:
 - (i) completed a First Year Programme, or
 - (ii) has standing in four courses of a First Year programme with an overall average (in these four courses) of at least 60%.
- c) A student who has a term mark of at least 60% in a failed course in a First Year programme will be permitted to write a supplemental examination. Failure in a supplemental examination will not count as a second failure, but will necessitate re-enrolment in the failed course or a substitute.

Second Year Programme

A student shall be said to have completed a Second Year programme when he has obtained standing in ten courses, at least three of which must be 200 or higher series courses.

Programme General Arts Course

- Third Year a) Students in the General Arts Course in Extension who by April-May 1969, have completed at least eleven subjects (courses) are required to complete their First Year by obtaining standing in six subjects and their Second Year by obtaining standing in five subjects including two courses in a subject of concentration, but that they are not required to fulfill subject group requirements.
 - b) Students with eleven subjects or more, who have not completed their second year subjects of concentration by August of 1969 will be able to substitute any second year course (in the field of concentration) which has not already been taken unless otherwise specified.
 - c) Students in the General Arts course in Extension who by April-May 1969, have been enrolled in at least eleven subjects (courses) will complete their Third Year under the same conditions as students who enrol full time in the Third Year of the General Arts programme. (16 credits for the degree.)

New Programme

- a) All other students in the General Arts and Science Course registered in the Division of University Extension are transferred to the New Programme.
- b) Students proceeding towards a degree through the Division of Extension are permitted to take a maximum of five courses in each academic year in a combination of a Winter Session and a Summer Session with a maximum of three in the Winter Session and two in the Summer Session either evening and/or day.
- c) A student shall be said to have completed a Third Year programme when he has obtained standing in fifteen courses, at least eight of which must be 200 or higher series courses and must include at least four "advanced" level courses (to be defined in 1969-70 session).
- d) A student shall be entitled to receive the Bachelor's Degree in the Faculty of Arts & Science when he has:
 - (i) completed a Third Year Programme, and
 - (ii) has a final mark of 60% or better in at least eight of his courses. Of these eight at least four must be 200 or higher series courses. (See c) above.)

Refused Further Registration in the Faculty A student will be refused further registration in the Faculty if:

- a) he fails four courses in his first ten attempts, and at the time of his fourth failure has an average in all courses attempted of less than 55%, or
- b) he fails five courses in his first fifteen attempts, or
- c) he fails six courses.

NOTE: Failed supplemental examinations do NOT count as second failures.



MCLENNAN LABORATORIES

Degree Course for Graduates of Diploma Schools of Nursing

This course provides a professional preparation for nursing in both the hospital and public health field, for teaching in Schools of Nursing and supervision of nursing service. The course leads to the Degree of Bachelor of Science in Nursing (B.Sc.N.).

Study in the Humanities, Sciences, and Social Sciences is associated with nursing throughout the course. Concepts in public health and mental health are emphasized in the teaching of nursing subjects.

Admission Requirements

Admission Requirements are outlined on pages 11-14.

Requirements for the Degree

To qualify for the degree, a student must obtain standing in sixteen courses — six First Year courses, five Second Year and five Third Year courses.

How to choose Courses

The First and Second Year courses are offered in part-time studies through the Division of Extension. Students must complete at least five of their first year courses before registering in Second Year. If a minimum average of "B" has been maintained in these five First Year courses, the student may continue in the Second Year in the Division of University Extension.

Nursing 210 is available to Extension students only in day classes during the Winter Session.

All students are required to attend regular, full-time studies in the School of Nursing for the Third Year.

SECOND YEAR COURSE PREREQUISITES

- 1) Physiology 321, 371 and Preventive Medicine 300 must be taken concurrently with or before Nursing 210.
- 2) Biological Chemistry 103 and either Biology (100 or 120) must be taken before Physiology 321, 371.
- 3) Nursing 110 must be taken before Nursing 210. Students who are transferring to full-time study in Second Year are required to have five credits including 2) and 3) before their transfer is approved.

Degree Courses for Graduates of Diploma Schools of Nursing

TIME LIMIT

Students will be required to complete the Degree Course programme within eight years from the time of initial registration. When a period of over five years has elapsed between the completion of Nursing 110 and 210, or Nursing 210 and 310 these subjects will be evaluated in terms of the content when the student seeks admission to the Second or Third Year.

COURSES

FIRST YEAR Biological Chemistry 103

English 100 or 104 or 105

Nursing 110 Psychology 100 Sociology 100

Biology 100 or Biology 120

SECOND YEAR Nursing 210

Philosophy 200 or 205 or 209 or 210 or 211 or 212

Physiology 321 and 371 Preventive Medicine 300 Psychology 203 or 204 or 205

THIRD YEAR Literature 310

Nursing 310 Nursing 311 Nursing 401 Psychology 310

First Year Programme in Engineering

Beginning in September 1969, the First Year of Studies leading to the Degree of Bachelor of Applied Science will be offered through the Division of University Extension in conjunction with the Faculty of Applied Science and Engineering.

Students who are unable to attend this University in a full-time capacity may apply for admission to the First Year Engineering Programme through the Division of University Extension. Admission procedures are outlined on pages 11-14. The number of applicants accepted for the First Year Engineering Programme will be limited.

Only the First Year of the Engineering Curriculum is available through part-time study. Students wishing to proceed to the degree will enrol as full-time students for the Second, Third and Fourth years.

The early years of the Four Year curriculum are designed to give students a command of the basic scientific principles upon which effective solutions to engineering problems are based. The courses in Civil Engineering, Mechanical Engineering, Industrial Engineering, Chemical Engineering, Electrical Engineering, Metallurgy and Materials Science and Geological Engineering have a common First Year.

In order to qualify for a completed first year of the Engineering Programme, a student must obtain standing in nine courses. All of the nine first year courses will be offered through the Division of Extension. Eight of the nine first year courses are compulsory. An elective from courses offered by the Faculty of Arts & Science is to be fitted in by the student.

The nine first year courses must be completed within a period of four calendar years with an overall average of not less than 60%.

COURSES

FIRST YEAR

Algebra & Analytic Geometry 2410
Applied Mechanics 100*
Calculus 2411
Chemistry 600, 601*
Electricity 700*
Engineering Graphics 135
Mathematical Applications and Computer
Programming 13*
Structure & Properties of Matter 2501*
An Elective** from the Programme of the

An Elective** from the Programme of the Faculty of Arts & Science

First Year Programme in Engineering

Second, Third & Fourth Years — Please refer to the Calendar of the Faculty of Applied Science & Engineering 1969-70 for course descriptions.

COURSE REGULATIONS

- * Calculus & Algebra are prerequisites or co-requisites for Applied Mechanics, Chemistry, Electricity, Mathematical Applications & Computer Programming, and Structure & Property of Matter. Other prerequisites and co-requisites may be established at a later time.
- 2) ** An Arts & Science elective is to be arranged by the student. If a student chooses a Science or Mathematics elective from courses offered by the Faculty of Arts & Science, his choice must be approved by the Faculty of Applied Science & Engineering.
- 3) Students must take at least 2 courses in the first calendar year.
- 4) The Mathematics courses must be completed within the first 2 calendar years.
- 5) At any point in his programme, the student's overall average must be not less than the smaller of the following two numbers:

60 or (48 + 2N) where N is the total number of subjects written up to that time.

The required overall average is shown in the following table:

	MINIMUM		MINIMUM
	OVERALL		OVERALL
N	AVERAGE	N	AVERAGE
1 paper —	50%	5 papers —	58%
2 papers —	52%	6 papers —	60%
3 papers —	54%	7 papers —	60%
4 papers —	56%	8 papers —	60%
		9 papers —	60%

6) An Engineering student in the Division of Extension may repeat up to two courses in order to improve his overall average, but a course can only be repeated once.

NOTE: Engineering students are not normally permitted to write supplementals. An Engineering student, however, may petition if he is unable to write an examination at the specified time in order to write the examination at the next examination period.

7) If a student fails to obtain pass standing (50%) on more than 2 courses on the first attempt, he will not be permitted further registration or examination in the Faculty of Applied Science & Engineering.

Timetables

No six year programme has been included in this Calendar due to the substantial changes which have occurred in curriculum. A special brochure covering the Summer Sessions 1970 will be issued in the New Year.

KEY

- F indicates a half-course given in the Fall Term only
- S indicates a half-course given in the Spring Term only
- Y indicates a half-course given throughout both Terms
- A indicates a full-course given in the Fall Term only
- B indicates a full-course given in the Spring Term only
- E indicates a course given at Erindale only.
- SSH indicates Sidney Smith Hall
- U.C. indicates University College
- Q.P. indicates 47 Queen's Park
 - / indicates "or"

EXTENSION COURSES AT SCARBOROUGH COLLEGE

Extension courses will be offered at Scarborough College in the Winter of 1969-70 and in the Summer of 1970. There will be about thirty courses in the Winter programme and a dozen in the Summer. These courses will be offered in a variety of disciplines and at First-, Second-, and Third-year levels.

The programme of courses will be announced shortly; students have been invited to express preferences as to the courses to be offered.

In regard to these courses, the College has undertaken responsibilities of administration and counselling. Further information may be obtained from:

The Registrar's Office, Scarborough College 1265 Military Trail West Hill 783, Ontario

Phone — 284-3127

Course		Campus	Evening	Time	Instructor	Building	Room
Actuarial Science	223F	St. George	Monday	7:30-9:30	R. S. Davies	S. S. H.	1022
	2338	St. George	Monday	7:30-9:30	R. S. Davies	. S. S.	1022
*Algebra & Analytic Geometry	2410	St. George	Tuesday	7:30-9:30	To be announced	Galbraith	420
nthropology,	100	- B	Tuesday	7 20 0 20		= 0	2100
Anunopology	100	or. George	inesaay		10 be announced	E 6.6.1	7107
	100	Erindale	Wednesday	-	lo be announced	Erindale College	
	204	St. George	Monday	7:30-9:30	To be announced	S. S. H.	1073
	241	St. George	Thursday	7:30-9:30	To be announced	S. S. H.	1021
	300	St. George	Tuesday	7:30-9:30	To be announced	S. S. H.	1069
	300	Erindale	Monday	7:30-9:30	To be announced	Erindale College	
Applied Mathematics	231	St. George	Wednesday 7:30-9:30	7:30-9:30	R. L. Johnston	S. S. H.	1021
Astronomy	100	St. George	Wednesday	Wednesday 6:30-10:00	To be announced	McLennan Lab.	137
Biochemistry	103	St. George	Monday	7:30-9:30	To be announced	Food Sciences Bldg.	124
Biology	120	St. George	Tue. & Thu. 7:30-9:30	7:30-9:30	H. Harvey	Ramsey Wright Bldg.	110
Botany	100	St. George	Mon. Lect. Wed. Lab.	7:30-9:30	P. Rangnekar	Mining	126
	220	St. George	Thu. Lect. Tue. Lab.	7:30-9:30 6:30-9:30	M. L. Heinburger N. G. Dengler	Botany	7 (Lect.) 207 (Lab.)
*Calculus	2411	St. George	Monday	7:30-9:30	To be announced	Galbraith	420
Chemistry	100	Erindale St. George	Wednesday 7:30-9:30 Monday 7:30-9:30 Wednesday 6:30-10:3	7:30-9:30 7:30-9:30 6:30-10:30	D. G. Clark J. Szymanski	Erindale College Lash Miller	158
	221	St. George	Tuesday Thursday	7:30-9:30 6:00-10:00	O. Meresz J. Powell	Lash Miller	155
Computer Science	228	St. George	Thursday	7:30-9:30	S. Glasser	S. S. H.	2102
*Open to Engineering Students		only.					

Course		Camune	Fvening	Time	Instructor	Building	Room
20000		andimo	9			0	
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East Asian Studies	100	St. George	ine. & inu.	7:30-9:30	IMIS. C. Lee	9. 9. H.	76C
	120	St. George	Tue. & Thu. 7:30-9:30	7:30-9:30	K. Tsuruta, T. Tokaichi	S. S. H.	597
	200	St. George	Mon. & Wed. 7:30-9:30	7:30-9:30	R. Chu, V. T. Yang	S. S. H.	1070
	203	St. George	Wednesday 7:30-9:30	7:30-9:30	C. D. C. Priestley	S. S. H.	1022
	220	St. George	Mon.&Wed. 7:30-9:30	7:30-9:30	K. Tsuruta, S. Uyenaka	S. S. H.	592
†East Asian Studies	306	St. George	Wednesday 7:30-9:30	7:30-9:30	R. M. Smith	S. S. H.	597
Conomico	100	C+ Coorgo	Wodnocdox 7.20 0.30	7.20 0.30	dollar of activity of the party of	c =	
LUMINICS	9	or. deorge	weunesuay	00:6-00:7	G. Glant, D. M. NOWIGH, C. B. Jutian	<i>i</i>	214, 220
	100	Erindale	Monday	7:30-9:30	M. J. Hare	Erindale College	
	101	St. George	Tuesday	7:30-9:30	A. M. Watson, J. H. A. Munro	S. S. H.	1070
	221	St. George	Wednesday		P. Honey	S. S. H.	1088
Education	300	St. George	Wednesday 4:00-6:00	4:00-6:00	R. Ross, J. Greig, D. MacIver	To be announced	
*Engineering Graphics	135	St. George	Wednesday 6:30-10:00	6:30-10:00	To be announced	Galbraith	420
English	100	St. George	Thursday	7:30-9:30	E. L. Costigan	S.S.	1022
0	100	Frindolo	Monday	7.20 0.20	T Adamough:	,	
	007	Erindale	Monday	7:30-9:30	I. Adamowski	Erindale college	9
	101	St. George	Tuesday	7:30-9:30	B. Cameron	S. S. H.	1022
	102	St. George	Wednesday	7:30-9:30	J. P. Dyson	S. S. H.	1072
	103	St. George	Thursday	7:30-9:30	C. R. Chasse	S. S. H.	1072
	104	St. George	Monday	7:30-9:30	A. H. de Quehen	S. S. H.	1072
	105	St. George	Tuesday	7:30-9:30	W. M. Lebans	S. S. H.	1072
	205	St. George	a	7:30-9:30	G. A. Hamel	S. S. H.	1074
	206	St. George	Thursday	7:30-9:30	M. Mueller	S. S. H.	1074
	210	St. George		7:30-9:30	L. W. Patterson	S. S. H.	1084
	211	St. George	Monday	7:30-9:30	P. V. Marinelli	S. S. H.	1086
	212	St. George	Tuesday	7:30-9:30	H. B. de Groot	S. S. H.	1084
	300	St. George	Thursday	7:30-9:30	P. F. Morgan, B.S. Hayne, H. Kerpneck	S. S. H.	1071, 1074, 1083
	300	Erindale	Wednesday	7:30-9:30	J. Patrick	Erindale College	
	301	St. George	Thursday	7:30-9:30	0. H. T. Rudzik	S. S. H.	1084
Environmental Studies	200	St. George	Wednesday 7:30-9:30	7:30-9:30	I. Burton, W. Wellington	47 Queen's Park	
10ffered for the last time.		*Open to Engineering Students only.	Students on	,×			

Course								J
		Campus	Evening	Time	Instructor	Building	Room	
Fine Art	100 300 301	St. George St. George St. George	Thursday 7 Monday 7 Tuesday 7	7:30-9:30 7:30-9:30 7:30-9:30	To be announced To be announced To be announced	ヹ ヹ ヹ ゚゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙ヹ ゚゚゚゚゙゙゙゙゙゙゙゚゚゚゙゙゙゙゙゙゙゙	2118 2118 2118	
French	100 120 140 220 222 222 *271 300	St. George	a as	7:30-9:30 7:00-9:30 7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	W. A. Oliver, E. Laryea D. Trott, N. Boursier O. J. Miller, R. A. Taylor P. R. Findlay P. Moes, D. de Kerckhove M. R. Corru A. G. Falconer E. Lehouck		1069, 1071 1069, 1070 1074, 1088 1021 2106, 2108 2106 2106 2016	
Geography	100 103FE 104SE 220 224 300F 301S 344	St. George Erindale Erindale St. George St. George Erindale Erindale St. George	Monday 6 Monday 7 Tuesday 6 Wednesday 6 Thursday 7 Thursday 7 Thursday 7 Thursday 7	6:30-10:00 6:30-10:00 6:30-10:00 6:30-10:00 6:30-10:00 7:00-9:30 7:00-9:30	A. Jopling K. Hare D. Pocock D. Pocock J. Britton A. Baker D. Putnam R. Putnam N. Field	S. S. H. S. S. H. Erindale College Erindale College S. S. H. S. S. H. Erindale College Erindale College S. S. H.	1085 1087 622 622 622	
Greek & Roman Hist.	120 300 301 190 200	St. George St. George St. George St. George St. George	Wednesday 7:00-9:30 Thursday 7:30-9:30 Wednesday 7:30-9:30 Wednesday 7:30-9:30 Tuesday 7:30-9:30		W. Bauer H. Boeschenstein C. Butler T. G. Elliott J. W. Cole	H H H H H H H H H H H H H H H H H H H	2116 1086 1088 2125 2125	
Greek & Latin Lit. 191 History 200E 200E 230 *Should be taken by those needin	191 100E 200E 230 se needin	St. George Erindale Erindale St. George	Thursday 7 Monday 7 Wednesday 7 Tuesday 7	7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	J. Warden, J. Grant P. C. Hill, M. Dafoe W. C. Berman J. M. Beattie, M. G. Finlayson	S. S. H. Erindale College Erindale College S. S. H.	2125	

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	250 271 300 347	St. George St. George St. George St. George	Tuesday 7:30-9:30 Wednesday 7:30-9:30 Thursday 7:30-9:30 Wednesday 7:30-9:30	7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	H. L. Dyck, A. Rossos P. C. T. White J. Blyth, J. B. Lang E. L. Shorter	# # # # % % % % % % % %	1086 1085 1085 2110
Italian	100 120 222 300 301	St. George Erindale St. George St. George St. George St. George	Wednesday 6:30-9:30 Wednesday 6:30-9:30 Tuesday 7:30-9:30 Monday 7:30-9:30 Thursday 7:30-9:30	6:30-9:30 6:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	M. Kuitunen A. Vicari E. G. Neglia M. Acacia M. A. Corvetti M. W. Ukas G. Sanguinetti	Lash Miller Lash Miller Erindale College Lash Miller Lash Miller Lash Miller	123 155 123 123 123 155
Latin	100 120F 123S 300	St. George St. George St. George St. George	Monday 7:00-9:30 Tuesday 7:30-9:30 Tuesday 7:30-9:30 Wednesday 7:30-9:30	7:00-9:30 7:30-9:30 7:30-9:30 7:30-9:30	H. J. Mason C. J. McDonough C. J. McDonough Sister M. Blandina	ボ ボ ボ ボ め め め め め め め め	2108 1074 1074 2127
Linguistics Mathematics	201 130 230 230 300	St. George St. George St. George Erindale St. George	Tuesday 7:00-9:30 Monday 7:30-9:30 Tuesday 7:30-9:30 Wednesday 7:30-9:30	7:00-9:30 7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	J. H. Rogers S. H. Smith P. Rosenthall S. Trott W. J. R. Crosby	S. S. H. 47 Queen's Park S. S. H. Erindale College S. S. H.	2127 20 1071 1073
Music Near East. Languages	*301 141 151 241	St. George St. George St. George St. George St. George	Wednesday 7:30-9:30 Wednesday 7:30-9:30 Thursday 7:30-9:30 Monday 7:30-9:30 Monday 7:30-9:30	7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	To be announced T. Kenins R. F. G. Sweet F. Talmage E. T. Lutz F. F. Wilson	Edward Johnson Edward Johnson S. S. H. S. S. H.	116 215 2116 2116 2116
Philosophy	100 200F 201S	Erindale St. George St. George	Wednesday Wednesday Wednesday	7:30-9:30 7:30-9:30 7:30-9:30	To be announced L. W. Sumner L. W. Sumner	Erindale College S. S. H. S. S. H.	1087 1087
"Offered for the last time —	ne — Wil	Winter Session '69-'70.	0.				

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	202S 300F	St. George St. George		7:30-9:30 7:30-9:30	F. Cunningham F. Cunningham	S. S. R. H. R. R.	1083 1083
	206F 208S	St. George St. George	Thursday Thursday	7:30-9:30 7:30-9:30	To be announced To be announced	S. S. H.	2108 2108
	211F 212S	St. George St. George	Tuesday Tuesday	7:30-9:30 7:30-9:30	D. Goldstick D. Goldstick	S. S. H. S. S. H.	1073 1073
Philosophy (St. Michael's)	150	St. George	Thursday	7:30-9:30	To be announced	Teefy Hall	
Physics	101 130 225F	St. George St. George St. George	Wednesday Tuesday Wednesday		P. Kirkby A. Jacobs D. York, A. W. Brewer	McLennan Lab. McLennan Lab. McLennan Lab.	125 125 118
	230	St. George	Monday	6:00-9:30	J. D. Prentice	McLennan Lab.	713
Political Science	100 203 204 206 300 320 322	St. George	Monday Tuesday Wednesday Tuesday Monday Tuesday	7.30-9.30 7.30-9.30 7.30-9.30 7.30-9.30 7.30-9.30 7.30-9.30 7.30-9.30 7.30-9.30	W. Charlton F. Chisman D. Schwartz V. Sawyer P. V. Bishop R. Gregor E. Andrew W. E. Grasham	S. S. H. Ramsey Wright Bldg. Ramsey Wright Bldg. Ramsey Wright Bldg. Ramsey Wright Bldg. S. S. H. S. S. H. Lash Miller	2135 229 142 143 229 597 2110
Preventive Medicine	300	St. George	Tuesday	7:00-10:00	Dr. Langford	School of Hygiene	
Psychology	100	St. George Erindale	Monday	7:30-9:30	G. B. Thornton, A. N. Doob, A. M. Wall, J. B. Gilmore T. Alloway, L. Krames	McLennan Lab. Erindale College	102, 103, 137, 202, 203
	202F 301S 203F 304S	St. George St. George St. George St. George	Monday Monday Monday Monday	7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	M. Laurence, J. Grusec M. Laurence, J. Preston J. Arrowood J. Arrowood	エエ エエ ダダ ダダ ダダ ダダ	2125 2127 2117 2117
	203S 211F	Erindale Erindale	Wednesday Wednesday	7:30-9:30 7:30-9:30	P. Cappell I. M. Spigel	Erindale College Erindale College	

Course		Campus	Evening	Time	Instructor	Building	Room
	204F 306S	St. George	Monday	7:30-9:30	R. O. Kroger R. O. Kroger	H. H.	2110
	206F 207S	St. George St. George	Wednesday 7:30-9:30 Wednesday 7:30-9:30	7:30-9:30	T. Grusec A. M. Wall	: ±± : ഗഗ : ഗഗ	2129
	209F 317S	St. George St. George	Wednesday 7:30-9:30 Wednesday 7:30-9:30	7:30-9:30 7:30-9:30	B. B. Schiff B. B. Schiff	ゴゴ	. 1083
Religious Studies	100 230	St. George St. George	Thursday Tuesday	7:30-9:30 7:30-9:30	To be announced L. Elmer	S. S. H. McLennan Lab.	2106 118
Slavic Studies	100 220 210/240 300	St. George St. George St. George St. George	Monday Tuesday Wednesday Thursday	7:00-9:30 7:00-9:30 7:30-9:30 7:30-9:30	D. Struck G. Kruberg C. H. Bedford N. Schneidman	McLennan Lab. McLennan Lab. McLennan Lab. McLennan Lab.	053 053 053 053
Sociology	100 100 101 101 201	St. George Erindale St. George Erindale St. George	Monday Monday Tuesday Monday Wednesday	7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	To be announced J. Joyner I. Currie M. Cooper R. Burnside	Lash Miller Erindale College Lash Miller Erindale College Lash Miller	159 158 157
Spanish	100 100 120 230 300 301	St. George Erindale St. George St. George St. George St. George	Thursday 6:30-9:30 Monday 6:30-9:30 Tuesday 7:30-9:30 Wednesday 7:30-9:30 Thursday 7:30-9:30 Monday 7:30-9:30	6:30-9:30 6:30-9:30 7:30-9:30 7:30-9:30 7:30-9:30	J. B. Davies, K. L. Levy, B. E. Segall, J. Gulsoy J. F. Burke M. Valdes T. B. Barclay J. H. Parker G. Hughes	McLennan Lab. Erindale College McLennan Lab. McLennan Lab. S. S. H.	118, 125, 257, 373 257 257 713 157
Zoology	322	St. George	Wednesday	Wednesday 7:00-10:00	To be announced	Ramsey Wright Bldg.	110

PARKING FACILITIES ON ST. GEORGE CAMPUS

Visitors may park in supervised areas (marked P on map) when space is available after University permit holders have been accommodated.

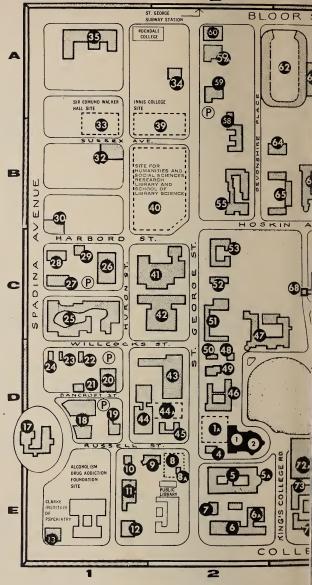
Casual parking fee—10 c. an hour, maximum 50c., Monday to Friday, 8.30 a.m.—7 p.m. After 7 p.m., flat rate 50 c. east of St. George Street, 25 c. west of St. George Street,

Parking on public streets within the campus is metered where permitted. Parking in unauthorized zones is subject to fines of up to \$10.

ALPHABETICAL LISTING

ACCOUNTING (Physical Plant)	.11 (E-1)
ACCOUNTING (Physical Plant). ADMINISTRATION (Simcoe Hall). ADMINISTRATION BUILDING Site. ADMISSIONS OFFICE (Simcoe Hall). ADVISORY BUREAU	1 (D-2)
ADMINISTRATION BILL DING Site	.1A (D-2)
ADMISSIONS OFFICE (Simcoe Hall)	1 (D-2)
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ALUMNI HOUSE	06 (0-1)
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ARENA	62A (A-3)
BANTING INSTITUTE	.79 (E-4)
BENSON BUILDING (Women's Athletics) 26 (C-1)
BEST (CHARLES H.) INSTITUTE	.78 (E-4)
BIRGE-CARNEGIE LIBRARY (Vic.)	95A (B-4)
BOOKROOM	.48 (D-2)
BORDEN BUILDINGS	18 (D-1)
BOTANY	77 (E-4)
BRENNAN HALL (St. Michael's)	87 (B-5)
BURTON TOWER	44 (D-1)
BURWASH HALL (Victoria)	94A (B-4)
BUSINESS	.1591(A-2)
CAMPILS CENTRE Site	8 (E-2)
CANADIANA ARCHIVES	71A (D-3)
CARD HALL (St. Minhael's)	85 (C-5)
CARR HALL (St. Wichael's)	83 (C-5)
CLOVER HILL (St. Michael S)	35 (A-1)
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CONVOCATION HALL	2 (D-2)
CUMBERLAND HOUSE	7 (E-2)
DEVONSHIRE HOUSE	65 (B-3)
EDWARD JOHNSON BUILDING (Music)	104 (B-3)
ELECTRICAL BUILDING	74 (E-3)
ELMSLEY HALL (St. Michael's)	88 (B-5)
EMMANUEL COLLEGE (Vic.)	95 (B-4)
EXTENSION DIVISION	105 (B-4)
FACULTY CLUB	22 (D-1)
FOOD SCIENCES	101 (A-4)
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GALBRAITH BUILDING (Engineering)	5 (E-2)
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(under construction) METALLURGY & MATERIALS SCIENCE	72A (E-3)
METALLURGY & MATERIALS SCIENCE	6A (E-2)
MINING AND MILL BUILDING	75 (E-3)

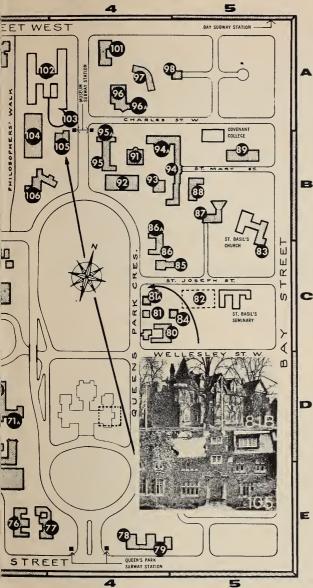
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University Extension

University of Toronto Press

SCARBOROUGH COLLEGE



ERINDALE COLLEGE



Courses leading to Type A Certification

Any teacher who wishes to use the following courses for credit toward the academic requirements for Type A certification should write to the Director, Advanced Academic Requirements, College of Education, University of Toronto, for an official ruling on his standing. This will ensure that the courses in which he wishes to enrol will meet the requirements for his academic programme. Each course, when approved, will carry credit at the College of Education towards Type A requirements.

Students who require courses for endorsement purposes should consult the General Arts Course and General Science Course sections of this calendar for courses which may be acceptable to the College of Education.

A student who wishes to take Type A or endorsement courses must apply for admission as a Special Student. (See the section on "Application and Registration" for regulations governing Special Students.)

The fee for each Type A course is \$115.00.

COURSE DESCRIPTIONS

Physiology

Applied APPLIED PHYSIOLOGY. A lecture and laboratory course reviewing selected aspects of human physiology in relation to reactions to environmental agents. Offered especially for teachers of Physical & Health Education.

Wednesday, 7:00-9:30 p.m. School of Hygiene, Room 235

Computer 301. INTRODUCTION TO COMPUTING. Stored-program computers and algo-Science rithmic programming languages. Fortran. Applications to quadrature, solving linear and non-linear algebraic equations, statistics, actuarial science, sorting, critical path scheduling.

Tuesday, 7:30-9:30 p.m. McLennan Laboratories, Room 134

English

320. *ENGLISH PROSE, POETRY, AND DRAMA, 1660-1800. The works of Dryden, Swift, Pope, and Johnson, for special study; Pepys, selections from The Diary (recommended edition, O. F. Morshead, ed., Harper Torchbooks); Addison and Steele, selections from The Tatler and The Spectator, (recommended edition, R. J. Allen, ed., Rinehart Editions); Horace Walpole, selected letters; Boswell, The Life of Samuel Johnson; Wycherley, The Country Wife; Congreve, The Way of the World; Gay, The Beggar's Opera; Sheridan, The School for Scandal; selections from Butler, Rochester, Halifax, Defoe, Prior, Thomson, Young, Collins,

Courses leading to Type A Certification

Gray, Smart, Goldsmith, Gibbon, Burns, Cowper, Burke (recommended text, English Prose and Poetry, 1660-1800, ed. Frank Brady and Martin Price, Rhinehart Editions).

Monday, 7:30-9:30 p.m. Ramsey Wright Building, Room 142

335. *ENGLISH DRAMA TO 1642. Noah's Flood (Chester); Abraham and Isaac (Brome); Secunda Pastorum; Everyman; Heywood, The Four P.P.; Udall, Ralph Roister Doister; Norton and Sackville, Gordoduc; Lyly, Endymion; Peele, The Old Wives' Tale; Marlowe, Tamburlaine, Part I, Doctor Faustus, Edward II; Kyd, The Spanish Tragedy; Shakespeare, with special reference to at least seven of the following: Love's Labour's Lost, Richard III, Much Ado About Nothing, As You Like It, Troilus and Cressida, Othello, Macbeth, King Lear, Coriolanus, The Winter's Tale; Jonson, two of the following: Everyman in His Humour, Sejanus, Volpone, The Alchemist, Bartholomew Fair; at least six of the following: Dekker, The Shoemakers Holiday; Marston and Webster, The Malcontent; Chapman, Jonson, and Marston, Eastward Ho; Beaumont and Fletcher, Philaster or A King and No King; Webster, The Duchess of Malfi; Middleton and Rowley, The Changeling; Middleton, A Game at Chesse; Massinger, A New Way to Pay Old Debts; Ford, The Broken Heart.

Tuesday, 7:30-9:30 p.m. Ramsey Wright Building, Room 142

454. *CANADIAN LITERATURE IN ENGLISH. Haliburton, The Clockmaker (First Series); Moodie, Roughing It in the Bush; Leacock, Sunshine Sketches; MacLennan, two novels; Callaghan, two novels. A prose work by each of four of the following: Sinclair Ross, F. P. Grove, Ernest Buckler, Ethel Wilson, Mordecai Richler, A. M. Klein, Sheila Watson, Sara Jeannette Duncan, Malcolm Lowry, Robertson Davies, Margaret Laurence. Selected Poetry from 1867 to the present. Recommended reading: Poets of the Confederation (ed. Ross); Poets between the Wars (ed. Wilson); Pratt, Collected Poems (ed. Frye); Poetry of Mid-Century (ed. Wilson); and other texts chosen by the instructor.

Thursday, 7:30-9:30 p.m. Ramsey Wright Building, Room 142

Science

Food 103. BIOLOGICAL CHEMISTRY & HUMAN NUTRITION. Pre-requisite: Grade XIII Chemistry.

Monday 7:30-9:30 pm. Food Sciences Building, Room 124.

307. FOOD MICROBIOLOGY. Microbiologic & Enzymatic Reactions which cause changes in foods. Prerequisite - Bio-Chemistry 103.

Tuesday 7:30-9:30 p.m. Food Sciences Building, Room 222

Courses leading to Type A Certification

372. HOUSING & COMMUNITY DEVELOPMENT.

Wednesday, 7:30-9:30 p.m. Food Sciences Building, Room 124

403. WORLD NUTRITION. Prerequisite — Bio-Chemistry 103.

Thursday, 7:30-9:30 p.m. Food Sciences Building, Room 224

French 320. *FRENCH LITERATURE IN THE AGE OF ENLIGHTENMENT.

Tuesday, 7:30-9:30 p.m. McLennan Laboratories, Room 373

355./440. *STRUCTURE OF THE FRENCH LANGUAGE. FRENCH COMPOSITION.

Wednesday, 7:30-9:30 p.m. McLennan Laboratories, Room 373

Geography 344. *GEOGRAPHY OF THE U.S.S.R.

Thursday, 7:30-9:30 p.m., Sidney Smith Hall, Room 622

History 230. *SOCIETY AND GOVERNMENT IN EARLY-MODERN ENGLAND, 1500-1800.

This course studies the formative period of modern English society, from the religious revolution of the sixteenth century to the economic revolution at the end of the eighteenth. The concentration is on social and political themes.

One two-hour lecture plus one one-hour tutorial per week.

Tuesday 7:30-9:30 p.m., Sidney Smith Hall, Room 2108

347. *MODERNIZATION OF EUROPEAN SOCIETY. Emphasis on England, France and Germany. Growth of the industrial system, the problem of an expanding economy, changes in the social structure, population increase and urbanization, radical protest movements, the conservative revolution of the intellectuals, totalitarian systems.

One two-hour seminar per week.

Wednesday, 7:30-9:30 p.m., Sidney Smith Hall, Room 2110

^{*}Preference in registration will be given to students proceeding towards a degree.

Science

Actuarial ACT 223F. MATHEMATICS OF INVESTMENT AND CREDIT. Interest, discount, and present values, as applied to determine: prices and values of mortgages, bonds, shares of stock; loan repayment schedules and consumer finance payments in general; yield rates on investments given the costs of the investments and the cash returns; effective costs of credit arrangements. Pre-requisite: A first-year Calculus course. Corequisite: None.

> ACT 233S. INTRODUCTORY LIFE CONTINGENCIES. Probability theory applied to problems involving life and death of one or more lives; costs of life assurances, life annuities, pensions; determination of balance sheet reserves; standard international notation. Pre-requisite: ACT 223F. Co-requisite: STA 232/242/252.

Anthropology

ANT 100. INTRODUCTION TO ANTHROPOLOGY. An introduction to the Department and subject, stressing the unity and diversity of anthropology. In proceeding through the origins and development of homo sapiens and the living populations, the growth, diversity and structure of societies, cultures and languages, this course will cover all fields of anthropology. These are, in order of presentation, physical anthropology, archaeology, social and cultural anthropology and linguistics. Prerequisite: None. Co-requisite: None.

ANT 100E. INTRODUCTION TO ANTHROPOLOGY. Principles of human evolution, the development of human cultures from the most remote times and a comparative survey of selected non-Western societies. Prerequisite: None. Co-requisite: None.

LIN 201. LANGUAGE LEARNING. An investigation of the learning of first and second languages in monolingual and polylingual societies with emphasis on the inductive method in field situations. Illustrated by 16 to 20 hours of the learning of some exotic spoken language such as Chinese or Japanese. (NOTE: LIN 201 may not be combined with ANT 202 or LIN 221 in any degree programme.) Pre-requisite: None. Co-requisite: None.

LIN 100. INTRODUCTION TO GENERAL LINGUISTICS. A general introduction to linguistics with main emphasis on descriptive linguistics. (See also under Linguistics.) Pre-requisite: None. Co-requisite: None.

ANT 204. SOCIAL AND CULTURAL ANTHROPOLOGY. The study of social organization and structure including belief systems, kinship and marriage, politics, and ecology. Pre-requisite: None. Co-requisite: None.

ANT 241. NORTH AMERICAN INDIAN IN TRANSITION. A discussion of the established culture areas and types existing in pre-contact and early contact times in North America followed by an analysis of the problems arising out of contacts between North American Indians and Euroamericans. Pre-requisite: None. Co-requisite: None.

ANT 300. MAN THROUGH TIME. Physical anthropology, archaeology and culture history. Pre-requisite: Anthropology 200.

Applied APM 100. STATICS. The principles of statics are applied to the composition Mechanics and resolution of forces, moments and couples. The equilibrium states of frames and machines are examined. The distributed load concept is applied to finding centroids, centers of mass and fluid pressure. The method of virtual work is applied to systems of rigid bodies and elastic members. DYNAMICS: Applications of the principles of dynamics are discussed for motion on straight and curved paths. Work, energy power and momentum concepts are applied to particles, systems of particles and rigid bodies. Simpler applications in relative motion are considered. Throughout statics and dynamics the free body concept is emphasized and vector algebra is used where it is most useful. Textbook: Mechanics for Engineers; Statics and Dynamics-Meriam. For Engineering students only.

> APM 231. NUMERICAL METHODS. Solution of nonlinear equations, approximation, quadrature, solution of systems of linear equations, eigenvalues and eigenvectors, differential equations. Exercise requiring use of a computer will be assigned. Pre-requisite: Old Programme: CSC 301 or CSC 311 or New Programme: CSC 108Y and MAT 134 or MAT 135.

Astronomy

AST 100. INTRODUCTION TO ASTRONOMY. A general survey of astronomy giving a descriptive treatment of the nature of solar and sidereal systems and the present conception of the structure of the universe. (NOTE: AST 100 may not be combined with AST 200 or 220 in any degree programme.) Pre-requisite: None. Co-requisite: None.

Biology

BIO 103. BIOLOGICAL CHEMISTRY. Biological chemistry and human nutrition. Pre-requisite: Grade XIII Chemistry. Co-requisite: None.

BIO 120. EVOLUTIONARY AND ENVIRONMENTAL BIOLOGY. A biology course relating the study of plants and animals to evolution. Lectures and laboratories will consider briefly the origin of life and cellular processes, and will stress genetic mechanisms, adaptations of plants and animals, populations, ecological systems, and man in his environment. Intended primarily for students with Grade XIII biology. Pre-requisite: None (XIII BIO recommended). Co-requisite: None. Limited enrollment.

Botany

BOT 100. PLANTS AND MAN. A basic botany course which covers such topics as the structure, function and uses of plants in their relation to the development and maintenance of an environment suitable to the welfare of mankind. Lectures and laboratories will include sexual reproduction and selection, the origin of cultivated plants, and the significance of photosynthesis. Pre-requisite: None. Co-requisite: None.

BOT 220. MORPHOLOGY AND EVOLUTION IN THE PLANT KINGDOM. A lecture and laboratory course on living and fossil representatives of the major plant groups, with emphasis on morphology, anatomy and evolution. Pre-requisite: BOT 100 or BIO 120 is recommended as preparation. Co-requisite: None.

Chemistry

CHM 100. INTRODUCTION TO CHEMISTRY. A course for those interested in learning something about modern chemistry, and its relationship, dependency and impact on other fields of science. (NOTE: CHM 100 may not normally be combined with CHM 120 in any degree programme.) Pre-requisite: None. Co-requisite: None.

CHM 120. BASIC CONCEPTS OF MODERN CHEMISTRY. Introduction to the concepts of thermodynamics leading to a discussion of chemical equilibrium. Atomic and molecular structure and modern theories of chemical bonding. Chemical reactivity in relation to molecular structure. (NOTE: CHM 120 may not normally be combined with CHM 100 in any degree programme.) Pre-requisite: XIII CHM, MAT A. Co-requisite: MAT 130/134/135/139/150.

CHM 221. STRUCTURE AND SYNTHESIS IN CHEMISTRY. An integrated course in inorganic and organic chemistry emphasizing structure and bonding and their study by spectroscopic methods. The last part of the course will present fundamental concepts of organic chemistry. Prerequisite: CHM 120. Co-requisite: None.

CHM 600. CHEMISTRY, Chemical theory, with industrial and engineering applications. For engineering students only.

CHM 601. CHEMICAL LABORATORY. A laboratory course illustrating the fundamental laws of chemistry as dealt with in the lecture course, and providing an introduction to chemical analytical methods. For engineering students only.

Science

Computer CSC 228. PROGRAMMING TECHNIQUES FOR DATA PROCESSING. Cobol, Modular Programming, Decision Tables, If—Applicable Programming, Tabling, Table Oriented Logic, Debugging, Sorting, Hardware and Software Evaluation. Pre-requisite: Old Programme: CSC 301 or CSC 311. or New Programme: CSC 108Y and a MAT course other than 100.

> CSC 301. INTRODUCTION TO COMPUTING. Stored-program computers and algorithmic programming languages. Fortran. Applications to quadrature, solving linear and non-linear algebraic equations, statistics, actuarial science, sorting, critical path scheduling. Pre-requisite: Mathematics 200.

East Asian EAS 100. INTRODUCTORY MODERN STANDARD CHINESE. An introductory Studies course in speaking and writing Chinese (Mandarin). Pre-requisite: None. Co-requisite: None.

> EAS 120. INTRODUCTORY MODERN JAPANESE. An introductory course in speaking and writing Japanese. Elementary grammar. Hiragana and basic characters. Pre-requisite: None. Co-requisite: None.

> EAS 200. INTERMEDIATE MODERN STANDARD CHINESE. A continuation of EAS 100. Further training in speaking, writing and reading the language with the aim of preparing the student for the study of Chinese literature in the Third Year. One hour per week is devoted to an introduction to Literary Chinese, Pre-requisite: EAS 100, Co-requisite: None,

> EAS 203. PRE-HAN PHILOSOPHY. Detailed study of translations from Four Pre-Han philosophical traditions: Legalism (Political Philosophy), Confucianism (Moral Philosophy), Later Mohism (Logic), and Taoism (Methaphysics). The texts to be studied are Han Feitzu, Hsun Tzu, Mencius, the Hsiao-Chu and Chuang Tzu. Pre-requisite: None. Corequisite: None.

> EAS 220. INTERMEDIATE MODERN JAPANESE. The course aims to equip students with basic skills for reading modern Japanese prose through careful structure analysis, acquisition of basic working vocabulary and oral drill. Readings are selected from representative modern Japanese authors. Pre-requisite: EAS 120. Co-requisite: None.

EAS 306. *INTRODUCTION TO ASIAN CIVILIZATION. No pre-requisite.

*To be offered for the last time during Winter '69 - '70.

Economics

ECO 100. INTRODUCTION TO ECONOMICS. An introductory analysis of contemporary economic institutions and problems: the theory of production and employment; the role of money and the banking system; governmental monetary and fiscal policy; price determination and the role of competition; foreign exchange rates and international trade and finance; and economic growth. Pre-requisite: None. Co-requisite: None.

ECO 101. EUROPEAN ECONOMIC HISTORY. The making of the modern European economy from the Middle Ages to the 20th century, including discussion of demography, agriculture, industry, technology, commerce, labour, money and banking, and their interconnection. Pre-requisite: None. Co-requisite: None.

ECO 200. MICROECONOMIC THEORY. A course in the microeconomic theory of pricing. It deals with the determination of prices through the interaction of the basic economic units, the household as consumer and the business firm as producer. Its concern is with the role of the pricing system as the mechanism by which social and individual decisions are made in a capitalist economy. ECO 100 is a strongly-recommended preparation. (NOTE: ECO 200 may not be combined with ECO 241 in any degree programme.) Pre-requisite: None. Co-requisite: None.

ECO 204F. MACROECONOMIC THEORY. This course concentrates on the theory of national income in closed and open economies. Economics 100 is a strongly-recommended preparation. (NOTE: ECO 204F *may not be combined with* ECO 202/240 *in any degree programme.*) Prerequisite: None: Co-requisite: None.

ECO 205S. MACROECONOMIC POLICY. This course is a continuation of ECO 204F. It turns to the problems of public policy in seeking to influence or control the level of national income and the price level. Pre-requisite: ECO 204F. Co-requisite: None.

ECO 221. NORTH AMERICAN ECONOMIC HISTORY. This course deals with economic growth and institutional change in the U.S. and Canada to 1935. The emphasis is upon the application of microeconomic and monetary theory towards an explanation of historical change. A staples approach is taken to the study of Canadian economic history. The cod fisheries and the fur trade are examined for the early period in relation to the economic and political events to which they gave rise. The National Policy is then examined in regard to the creation of a transcontinental economy after Confederation. Pre-requisite: ECO 100. Corequisite: None.

Education

300. EDUCATION AND SOCIETY. An analysis of critical problems and issues in education and the contribution of the major disciplines in their resolution. Current educational thought and practice will be emphasized. The Ontario school system will be used as a type of educational case study. Open to Second and Third Year students only.

Electricity

700. ELECTRICITY. A basic course in electricity and magnetism including electric forces and fields, analysis of direct-current circuits, magnetic forces and fields, induction, and an introduction to the conductive, magnetic and dielectric properties of materials. For Engineering students only.

Engineering Graphics

135. AN INTRODUCTORY COURSE designed to give the student a foundation in spatial visualization and an appreciation of the various graphical techniques used in representation and in the solution of engineering problems. The lectures are mainly concerned with descriptive geometry, i.e., with the principles of orthographic oblique and perspective projection and their use in solving problems involving points, lines and surfaces. In the laboratory, problems are solved in descriptive geometry, engineering drawing, empirical equations, charts and graphs. Both instrument and freehand techniques are used. Textbooks: *Graphic Science*—French and Vierck, 2nd edition; *Graphic Science Problems*—Vierck and Hang, 2nd edition. For Engineering students only.

English

ENG 100. FORMS OF TWENTIETH-CENTURY LITERATURE. Five of the following novels: Conrad, Heart of Darkness; Lawrence, Sons and Lovers; Woolf, To the Lighthouse; Hemingway, Farewell to Arms; Fitzgerald, The Great Gatsby; Waugh, A Handful of Dust; Faulkner, Light in August; a more recent novel to be selected. Five of the following plays: Shaw, Major Barbara; O'Casey, Juno and the Paycock; O'Neill, Long Day's Journey into Night; Williams, The Glass Menagerie; Fry, The Lady's not for Burning; Osborne, Luther; Pinter, The Caretaker; Albee, Who's Afraid of Virginia Woolf?; a play to be selected. Three of the following poets: Yeats, Frost, Eliot, Williams, Auden, Dylan Thomas, Stevens, a younger poet. Additional works at the discretion of the instructor. Pre-requisite: None. Co-requisite: None.

ENG 101. SHAKESPEARE. Special study of Romeo and Juliet, A Midsummer Night's Dream, Richard II, Henry IV, Parts I and II, Twelfth Night, Measure for Measure, Hamlet, Antony and Cleopatra, The Tempest. Other plays may be added at the discretion of the instructor. Pre-requisite: None. Co-requisite: None.

ENG 102. AMERICAN LITERATURE. Three of the following poets: Edward Taylor, Poe, Whitman, Dickinson, Frost, Stevens, Pound, Eliot, Hart Crane, Robert Lowell. Four of the following novels: a novel of Cooper; Hawthorne, The Scarlet Letter; Melville, Moby Dick; Twain, Adventures of Huckleberry Finn; James, The Portrait of a Lady; a novel of Howells; a novel of Stephen Crane; a novel of Dreiser; a novel of Faulkner; Ellison, Invisible Man. Three of the following: Bradford, Of Plymouth Plantation; Crevecoeur, Letters from an American Farmer; Franklin, Autobiography; Irving, A History of New York; Dana, Two Years before the Mast; Parkman, The Oregon Trail; Thoreau, Walden; Twain, Life on the Mississippi; Adams, The Education of Henry Adams; Cummings, The Enormous Room; Wolfe, Look Homeward, Angel; Baldwin, Notes of a Native Son. Additional works at the discretion of the instructor. Pre-requisite: None.

ENG 103. OLD ENGLISH LANGUAGE AND LITERATURE. An introduction to the language, history, and literary culture of the Anglo-Saxons from 700 to the Norman Conquest. Prescribed text: Seven Old English Poems (ed. Pope, Bobbs-Merrill). Other texts to be assigned. Pre-requisite: None. Co-requisite: None.

ENG 104. ENGLISH LITERATURE FORMS AND APPROACHES. Emily Bronte, WutheringHeights; Faulkner, The Sound and the Fury; Shakespeare, Hamlet; Congreve, The Way of the World; selections from the poetry of Marvell; selections from the poetry of Hopkins; More, Utopia or Browne, Religio Medici or Carlyle, Sartor Resartus. At least four more works, chosen so as to extend the range of forms, to make possible additional approaches, and to illuminate by comparison the listed texts. Readings in criticism to be assigned. Pre-requisite: None. Co-requisite: None.

ENG 105. MAJOR BRITISH WRITERS. Selections from: Chaucer, Spenser, Shakespeare's non-dramatic poetry, Donne, Milton, Pope, Johnson, Wordsworth or Keats, Browning or Tennyson, Yeats or T. S. Eliot. Text: The Norton Anthology of English Literature one volume ed. (revised). (Alternative or additional texts at the discretion of the instructor.) Three plays, at least one by Shakespeare; Swift, Gulliver's Travels; one novel, novella, or group of short stories by each of: Fielding, Dickens or George Eliot, and Joyce or James. Pre-requisite: None. Co-requisite: None.

ENG 205. VARIETIES OF DRAMA. A study of selected plays.* Pre-requisite: None. Co-requisite: None.

ENG 206. VARIETIES OF PROSE FICTION. A study of selected narratives in prose.* Pre-requisite: None. Co-requisite: None.

ENG 210. CHAUCER. A study of *Troilus and Criseyde*, selections from *The Canterbury Tales* and further selections from Chaucer's works.* Pre-requisite: None. Co-requisite: None.

ENG 211. ENGLISH PROSE AND POETRY, 1500-1600. A study of representative poets and prose writers, with selected readings in Continental writers of the period.* Pre-requisite: None. Co-requisite: None.

ENG 212. PROSE FICTION, BUNYAN TO MEREDITH. A study of selected novelists from the seventeenth to the nineteenth century illustrating the historical development of the English novel.* Pre-requisite: None. Corequisite: None.

ENG 300. ENGLISH LITERATURE FROM TENNYSON TO THE PRESENT. Selections from Tennyson, Browning, Yeats, and T.S. Eliot, Selections from Arnold and two of the following: D. G. Rossetti, Christina Rossetti, Morris, Swinburne, Meredith, Hopkins, Hardy. Selections from Whitman and two of the following: Dickinson, Frost, Pound, Wallace Stevens, Auden, Dylan Thomas (Representative Poetry, Vol. III and texts to be specified by the instructor). A novel by Dickens; a novel by George Eliot. Two novels chosen from the works of two of the following: James, Conrad, Forster, Joyce, Lawrence, Fitzgerald, Faulkner, and Greene. Two of the following: Carlyle, Sartor Resartus; Newman, On the Scope and Nature of University Education, Lectures IV to VII; J. S. Mill, On Liberty; Arnold, Culture and Anarchy. Two of the following: Shaw, Saint Joan; O'Casey, Juno and the Paycock; O'Neill, Long Day's Journey into Night; Beckett, Waiting for Godot; Williams, The Glass Menagerie. No prerequisite.

ENG 301. POETRY AND PROSE. At least six of the following: selections from Chaucer, The Canterbury Tales; Milton, Paradise Lost; Pope, Essay on Man or The Dunciad; Shelley, Prometheus Unbound; Wordsworth, The Prelude; Tennyson, Maud or Idylls of the King; Meredith, Modern Love; Eliot, Four Quartets; one recent poem to be specified by the instructor. At least eight critics, to include the following: Aristotle; Sidney; two of Dryden, Pope, Johnson; Coleridge; Arnold; Eliot. Practical criticism. Prerequisite: English 201, 300.

*Further information concerning these course prescriptions is available at the office of the Chairman of the Department of English at each College.

Studies

Environmental FSE 200. "ENVIRONMENTAL STUDIES". An interdisciplinary approach to issues arising from the interaction of living organisms, especially man, with their environment. Major theories, methods, and empirical findings of the relevant social and life sciences will be presented in the context of a search for common concepts. The relevance of theory in each field to the problems of the others will be explored. This course will serve as an introduction to later courses involving detailed examination of specific problems. Disciplines involved will include Biology, Geography, Law, and Political Economy. One course in a Social Science and/or Life Science is strongly recommended as preparation. Pre-requisite: None. Co-requisite: None.

Fine Art FAR 100. ANCIENT AND MEDIAEVAL ART. A survey of the art of Greece, Rome, and the mediaeval Christian world (including the Byzantine Empire). Emphasis is placed upon the importance of architecture and the arts as characteristic expressions of their age; this concept is illustrated by detailed study of the outstanding monuments from each period. Pre-requisite: None. Co-requisite: None.

FAR 300. EUROPEAN ART FROM 1700 TO THE PRESENT. Pre-requisite: Fine Art 200.

FAR 301. THEORY AND TECHNIQUE OF THE PLASTIC ARTS. A continuation of 201, with emphasis on sculpture and graphics. Pre-requisite: Fine Art 201 and 300. (Two evenings each week.)

French FRE 100. FRENCH LITERATURE TAUGHT IN ENGLISH. Based on a mode, e.g. "satirical literature" or "tragic literature" or "comedy", with appropriate texts. Readings in French. Lectures and Tutorials in English (or in French, if individual sections so desire). Pre-requisite: Reading knowledge of French. Co-requisite: None.

FRE 120. PREPARATION FOR UNIVERSITY FRENCH STUDIES. (a) One hour per week: orientation lecture, including readings. (b) Two hours per week of language practice, including phonetics, grammar, composition and language laboratory work. Pre-requisite: XIII FRE. Co-requisite: None.

FRE 140. STUDIES IN MODERN FRENCH LITERATURE. The study of specific texts in 19th and 20th century poetry, novel and drama. A practical introduction to techniques of literary criticism and analysis. Prerequisite: XIII FRE. Co-requisite: FRE 120.

FRE 220. THE CLASSICAL CURRENT. Specific texts studied, with emphasis on the main period associated with the current. Pre-requisite: FRE 120. Co-requisite: None.

FRE 271.* LANGUAGE PRACTICE. A continuation of FRE 121, including grammar, composition, oral, vocabulary, pattern drills and language laboratory work. Pre-requisite: FRE 120. Co-requisite: None.

FRE 300. FRENCH LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES. Prescribed texts. Supplementary reading. Composition. Prerequisite: French 200.

FRE 301. MODERN FRENCH DRAMA. Prescribed texts. Supplementary reading. Stylistics. Oral French. Open only to students concentrating in French.

*Should be taken by students who need to fulfill concentration requirements in second year.

Geography

GGR 100. INTRODUCTORY PHYSICAL GEOGRAPHY. Term I: Geomorphology: Principles of landscape sculpture, modern versus classical geomorphology, morphoclimatic controls, weathering, soil formation, the hydrologic cycle, rivers and drainage basins, floods, erosion, pollution; man's role in changing the landscape. Term II: Climatology: Time and space scales of fluctuations in atmospheric variables; fluxes and balances of radiation, heat, moisture; relationship to other geographically differentiated phenomena. Pre-requisite: None. Co-requisite: None.

GGR 103FE. ECONOMIC GEOGRAPHY I. An introduction to the relationships between the environment and productive human activities. Distribution patterns of production, trade and transportation, and consumption. Pre-requisite: None. Co-requisite: None.

GGR 104SE. ECONOMIC GEOGRAPHY II. Some elementary principles of economic location illustrated by specific examples from the fields of agriculture, manufacturing, trade and service industries. Pre-requisite: GGR 103FE. Co-requisite: None.

GGR 220. REGIONAL ECONOMIC ANALYSIS. An introduction to location, structure and interaction. The course focuses on the use of location theory in explaining industrial and agricultural patterns; transport networks and flow systems; regional economic structure and problems in regional economic development. Examples are drawn from various parts of the world. Pre-requisite: None. Co-requisite: None.

GGR 224. INTRODUCTION TO URBAN GEOGRAPHY. An introduction to the study of the city under these headings: origins of cities; description and measurement of the city; spatial structure of urban activities; intra-urban circulation; urban systems; urban growth; urban form and development in Europe and North America; the city as environment; contemporary approaches to urban problems. Pre-requisite: None. Co-requisite: None.

GGR 300FE. NORTH AMERICA I. Studies of specific geographical problems in Canada. Pre-requisite: Old GGR 200/permission of instructor. Co-requisite: None.

GGR 301SE. NORTH AMERICA II. Problems of regional geography in North America with emphasis upon the U.S.A. and upon Canada-U.S. relations. Pre-requisite: GGR 300FE / permission of instructor. Corequisite: None.

GGR 344. GEOGRAPHY OF THE U.S.S.R. Pre-requisite: One prior course in Geography. Co-requisite: None.

German

GER 120. GERMAN LITERATURE OF THE 19TH AND 20TH CENTURIES; LANGUAGE PRACTICE. A study of works from 19th and 20th Century German Literature to illustrate major trends from the Classical period to the present; practice in active language learning. Pre-requisite: XIII GER. Co-requisite: None.

GER 300. GOETHE, Faust II; MAJOR WORKS IN GERMAN LITERATURE FROM HEINE TO BRECHT. Prescribed texts, supplementary texts; composition; oral practice. Pre-requisite: German 200.

GER 301. GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTU-RIES, from Kleist to Brecht, Dürrenmatt and Frisch: prescribed texts; supplementary texts; composition. Concentration Course. Pre-requisite: German 201, and 300.

History

Greek & GRH 190. GREEK AND ROMAN CIVILIZATION. Its political, economic and Roman cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural.

> GRH 200. HISTORY OF ROME FROM ITS FOUNDATION TO 31 B.C. Political. economic and cultural development accompanying Rome's evolution from city-state to world empire. Pre-requisite: None. Co-requisite: None.

Greek & Latin GLL 191. GREEK AND ROMAN DRAMA. With a study of selected plays of Literature in Aeschylus, Sophocles, Euripides, Aristophanes, Menander, Plautus, Translation Terence and Seneca. Pre-requisite: None. Co-requisite: None.

History HIS 100E. MODERN EUROPE. Europe from 1400 to 1945. A general survey of the major developments in European history from the Renaissance through World War II. In the first term to 1789, the main emphasis is placed upon Continental Europe; in the second term the geographic scope is enlarged somewhat for the sake of an adequate discussion of the two world wars. Pre-requisite: None. Co-requisite: None.

> HIS 200E. HISTORY OF THE UNITED STATES 1763-1968. An introduction to American history, from the movement for independence into the cold war. Primary attention devoted to political developments, but economic, social and intellectual factors will also be examined. Pre-requisite: None. Co-requisite: None.

> HIS 230. SOCIETY AND GOVERNMENT IN EARLY-MODERN ENGLAND, 1500-1800. This course studies the formative period of modern English society, from the religious revolution of the sixteenth century to the economic revolution at the end of the eighteenth. The concentration is on social and political themes. One two-hour lecture plus one one-hour tutorial per week.

HIS 250. RUSSIA SINCE THE NINTH CENTURY. The Russian people, state and culture, with emphasis on major institutional, social and ideological changes. First term: the origins of Russian history, paganism and Christianity, Mongol influences, the forging of Muscovite autocracy, westernization to 1800. Second term: the imperial regime, the radical intelligentsia, the Revolution and the establishment of the Soviet regime, the Stalin revolution in agriculture, industry and society, foreign relations. Reading in primary and secondary materials. One two-hour lecture plus one one-hour tutorial per week.

HIS 271. MAJOR THEMES IN AMERICAN HISTORY. The Revolution and the Constitution; Jeffersonian and Jacksonian Democracy; Manifest Destiny; the slavery controversy; Civil War and Reconstruction; industrialization and urbanization; Populism and Progressivism; emergence to world power; prosperity; the depression and the New Deal; world leadership and the affluent society. Pre-requisite: None. Co-requisite: None.

HIS 300. HISTORY OF CANADA. A survey of the political, social and economic history of Canada, topically treated, from 1663 to 1967. Prerequisite: None. Co-requisite: None.

HIS 347. MODERNIZATION OF EUROPEAN SOCIETY. Emphasis on England, France and Germany. Growth of the industrial system, the problem of an expanding economy, changes in the social structure, population increase and urbanization, radical protest movements, the conservative revolution of the intellectuals, totalitarian systems. One two-hour seminar per week.

*Students who wish to take a History course as part of the First Year Programme are advised to take History 271.

Italian ITA 100. ITALIAN LANGUAGE FOR BEGINNERS. In this course the student is introduced to the main elements of Italian grammar. The study of modern Italian authors is begun in the second term, with emphasis on language and literary analysis. Oral practice in the classroom and laboratory training are stressed throughout the year. (NOTE: ITA 120 may not be combined with ITA 100 in any degree programme.) Prerequisite: None. Co-requisite: None.

ITA 100E. BEGINNING ITALIAN. Grammar, translation, oral work, in classroom instruction and laboratory. With a total objective of balanced oral-aural and traditional-written capabilities.

ITA 120. MODERN ITALIAN LITERATURE. LANGUAGE PRACTICE. A course for those with Grade XIII standing or equivalent in the subject. Novels, plays and poetry by modern Italian writers will be discussed, for an

understanding of social and intellectual problems of present-day Italy. Language practice will emphasize written and oral work throughout the year. (NOTE: ITA 120 may not be combined with ITA 100 in any degree programme.) Pre-requisite: XIII ITA. Co-requisite: None.

ITA 200E. Pre-requisite: Italian 100, Grade XIII, or equivalent. A more thorough examination of grammar and the development of greater skills in translation, composition and reading, to achieve a wider and deeper capability in Italian usage.

ITA 222. INTERMEDIATE ITALIAN LANGUAGE AND LITERATURE. Modern Italian Literature and Language Practice. Offered 1969-70 only and primarily for students who have taken Italian 100/123/124. Prerequisite: Italian 100/123/124. Co-requisite: None.

ITA 300. ITALIAN LITERATURE AND CULTURE OF THE MIDDLE AGES. Prescribed texts: Dante, *La Divina Commedia* (ed. Sapegno), Vol. I; Boccaccio, *Il Decamerone* (ed. Ottolini); Petrarca, *Canzoniere*. Prerequisite: Italian 200.

ITA 301. ITALIAN RENAISSANCE LITERATURE. Oral Practice. Pre-requisite: Italian 201 and 300.

Latin LAT 100. INTRODUCTORY LATIN. This course is designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature. Pre-requisite: None. Co-requisite: None.

LAT 120F. THE POETRY OF CATULLUS. Selections from the work of Catullus, including both his love poems and his satiric epigrams. This course will concentrate on the literary value of Catullus' work. It will also include study of the Latin language. Pre-requisite: XIII LAT/LAT 100/130. Co-requisite: LAT 121/122/123.

LAT 123S. CICERO AND ROMAN ORATORY. Reading of Cicero *Pro Caelio*. This speech which deals with a *cause célèbre* in the circle of Catullus, will be studied for the light which it sheds on social life at the end of the Roman Republic and to illustrate Cicero's skill as an orator. The course will also include study of the Latin language. Pre-requisite: XIII LAT/LAT 100/130. Co-requisite: LAT 120/121/122.

LAT 130. INTERMEDIATE LATIN. This course is designed for the student who has not taken Latin beyond Grade XII. Cicero's *Pro Cluentio* (selections) and Ovid *Metamorphoses I* will be read and the course will also include study of the Latin language. Pre-requisite: XII LAT/LAT 100. Co-requisite: None.

LAT 300. HORACE, TACITUS; COMPOSITION. Tacitus, Agricola; Horace, Epistles I 1, 3, 5, 6, 9, 10, 12, 13, 16, 19, 20; Odes I 2-5, 7, 9, 10, 14, 22-24, 29, 31, 34, 37; II 3, 7, 10, 13, 14, 16; III 1, 5, 8, 9, 13, 21, 23, 30; IV 5, 7, 15. Prose composition; translation at sight. Pre-requisite: Latin 200.

Linguistics

LIN 100. INTRODUCTION TO GENERAL LINGUISTSCS. Textbooks: Gleason, An Introduction to Descriptive Linguistics and Workbook. Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Tutorials for practice in production and recognition of speech sounds, and elementary analytic techniques. Pre-requisite: None. Co-requisite: None.

LIN 201. LANGUAGE LEARNING. An investigation of the learning of first and second languages in monolingual and polylingual societies with emphasis on the inductive method in field situations. Illustrated by 16 to 20 hours of the learning of some exotic spoken language such as Chinese or Japanese. (NOTE: LIN 201 may not be combined with LIN 221 in any degree programme.) Pre-requisite: None. Co-requisite: None.

LIN 300. SOCIOLINGUISTICS. The status of language variety in culture; folklore, authoritarianism, and correctness myths; the functions of standard. No pre-requisite.

Mathematics MAT 130. CALCULUS. The derivative and integral, with applications. This is a course for those who need calculus to accompany another field of study but do not have a special interest in it; however, it is also suitable as a basis for further work. (See also MAT 110) Pre-requisite: XIII MAT A. Co-requisite: None.

> MAT 230. ADVANCED CALCULUS. A continuation of Mathematics 130. The definite integral, expansion in series, partial differentiation, multiple integration, differential equations. Pre-requisite: MAT 130/110/134/ 135. Co-requisite: None.

> MAT 300. ALGEBRA. Number systems, groups, rings, fields, victor spaces and perhaps some applications. Pre-requisite: one previous university course in Mathematics.

> 2410. ALGEBRA. Introduction to linear algebra with applications to three dimensional euclidean geometry. Matrix algebra and the solution of linear systems of equations. Determinants. Reduction of quadrics to standard form. For Engineering students only.

2411. CALCULUS. The theory of the derivative. Applications to curve sketching, rate problems and extremal problems. The definite integral. Volume and work calculations. Techniques of integration. For Engineering students only.

MATHEMATICAL APPLICATIONS AND COMPUTER PROGRAMMING 13. Problems will be assigned to illustrate engineering applications of mathematics. Many of the solutions will apply first year Mathematics to solve problems in Applied Mechanics, Chemistry and Electricity. The concepts of algorithms, stored programmes and computer coding will be introduced; some of the more time-consuming numerical and non-numerical applications will be solved with the aid of a computer. For Engineering Students only.

Music MUS 100. THE STUDY OF MUSIC AS A LITERATURE. The major styles of world music and its repertoire. Pre-requisite: None. Co-requisite: None.

> *MUS 301. THE STRUCTURE OF MUSIC. Analytic study of chromatic harmony as applied to the literature from the eighteenth century to the present day. Pre-requisites: Music 201 and 300.

Near Eastern NLA 141. INTRODUCTORY CLASSICAL HEBREW. An introduction to biblical Languages Hebrew prose. Grammar and selected texts. (NOTE: NLA 141 may not be combined with NLA 151 in any one year.) Pre-requisite: None. Corequisite: None.

> NLA 151. INTRODUCTORY MODERN HEBREW. Introduction to Modern Hebrew through an audio-lingual approach. Classroom exercises supplemented by drill in language laboratory. Reading of graded texts. (NOTE: NLA 151 may not be combined with NLA 141 in any one year.) Prerequisite: None. Co-requisite: None.

> NLA 241. INTERMEDIATE CLASSICAL HEBREW. A continuation of NLA 141. Rapid reading of selected biblical texts. Pre-requisite: NLA 141/ 151. Co-requisite: None.

Nursing

110. A study of human development through the phases of the life cycle correlating physiological, psychological and social factors and the implications for nursing in the various community health services.

210. This course includes lectures, discussions and observation visits which focus on: (a) the present concept of nursing and the nursing process (b) community health nursing (c) selected pathophysiological processes and the implications for nursing. Five hours a week. (Offered during the day only.)

*Offered for the last time — Winter Session '69-'70.

Philosophy

PHL 100. INTRODUCTION TO PHILOSOPHY. An introduction to logic and to some of the main problems of philosophy. Pre-requisite: None. Co-requisite: None.

PHL 200F. INTRODUCTION TO ETHICS. An introduction to some main problems in moral philosophy. Pre-requisite: None. Co-requisite: None.

PHL 201S. CONTEMPORARY ETHICS. An investigation of current trends and problems in the fields of moral philosophy and metaethical theory. Pre-requisite: PHL 200. Co-requisite: None.

PHL 300F. THE PHILOSOPHY OF THE SOCIAL SCIENCES. An analysis of some of the theoretical and methodological assumptions of the Social Sciences. Pre- and/or Co-requisite: Two courses in the Social Sciences.

PHL 202S. POLITICAL PHILOSOPHY. An introduction to problems in the history of political theory. Pre-requisite: PHL 200/203. Co-requisite: None.

PHL 206F. MODERN SYMBOLIC LOGIC. Pre-requisite: None. Co-requisite: None.

PHL 2085. INDUCTIVE LOGIC AND SCIENTIFIC METHOD. Pre-requisite: PHL 203/210/213. Co-requisite: None.

PHL 211F. DESCARTES AND LOCKE. A systematic study of the central philosophic problems of Descartes and Locke. Pre-requisite: None. Corequisite: None.

PHL 212S. BERKELEY AND HUME. A systematic study of the central philosophic problems of Berkeley and Hume. Pre-requisite: PHL 224F. Co-requisite: None.

Philosophy St. Michael's College PHI. 150. INTRODUCTION TO PHILOSOPHICAL PROBLEMS. Typically philosophical questions will be discussed in each of three areas of enquiry (such as forms and criteria of knowledge, ultimate reality, and morality). A selection of contemporary and historical sources will be studied in debate on each question and the argumentation analyzed with attention to vocabulary and method. Pre-requisite: None. Co-requisite: None.

Physics

PHY 101. PHYSICS AND THE MODERN WORLD. A course intended to give the non-science student an appreciation of the nature of 20th century physics. The material is almost entirely descriptive. It is chosen to introduce the student to problems of interest to today's physicists and to show the interaction between physics and the community. Pre-requisite: None. Co-requisite: None.

PHY 130. MECHANICS, MATTER AND WAVES. An introductory lecture and laboratory course based on a text of the same name by Ingard and Kranshaar. It is intended for science students who expect to take at least one additional physics course in a later year. (NOTE: PHY 130 may not be combined with PHY 120 or 135 in any degree programme.)

PHY 225Y. GEOPHYSICS. A half course in physics of the earth, atmosphere and magnetosphere, offered to students in science. The principal conclusions reached by geophysicists about the planet, its evolution, and the processes taking place on it are introduced, as well as an outline of the methods utilized in attacking current research problems. Prerequisite: MAT 130/135/139/150. Co-requisite: None.

PHY 230. ELECTROMAGNETISM AND ATOMIC PHYSICS. A lecture and laboratory course in electricity, magnetism, optics, atomic, nuclear and elementary particle physics, designed as a complement to PHY 130 and intended for specialists in disciplines other than physics. Pre-requisite: MAT 130/135/139/150. Co-requisite: MAT 230/235.

2501. THE STRUCTURE AND PROPERTIES OF MATTER. An introduction to the mechanical, electrical, magnetic, thermal and optical properties of matter in terms of atoms. For Engineering Students only.

Political POL 100. INTRODUCTION TO CANADIAN POLITICS. A study of the political Science process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. Pre-requisite: None. Co-requisite: None.

> POL 203. POLITICS AND GOVERNMENT OF THE UNITED STATES. During the first term, this course concentrates on the evolution of the American constitution with particular reference to individual rights, federalism and governmental powers. In the second term, the course deals with the actual operation of government through the workings of politics and administration; it covers executive-legislative relations, parties, pressure groups, the bureaucracy, and foreign affairs. Pre-requisite: None. Corequisite: None.

> POL 204. POLITICS AND GOVERNMENT OF THE U.S.S.R. An introduction to the domestic politics and foreign relations of the U.S.S.R., with emphasis on the post-Stalin era. The initial phase will be taken up with the political history, political culture, and institutions of the U.S.S.R., and with a consideration of alternate approaches to the study of Soviet

politics. Detailed attention will then be given to the Soviet policy process in both domestic and external affairs. Although the stress will be on internal politics, roughly a quarter of the course will be devoted to external affairs and the impact of external events and foreign policy considerations on the Soviet domestic scene will be emphasized throughout. Pre-requisite: None. Co-requisite: None.

POL 206. QUANTITATIVE METHODS FOR POLITICAL SCIENCE. This course will treat the main topics in statistics relevant to quantitative work in Political Science: problems of measurement and scaling, empirical frequency distributions, measure of central tendency and dispersion, regression, correlation, probability and theoretical distributions, tests of hypotheses, estimation, analysis of variance. Students will be expected to work samples and to report on published studies using the techniques under discussion. The course will not be one of research methodology, treating for example, topics such as questionnaire construction, but if possible, groups of students will be encouraged to undertake projects of a limited extent that may require them to gain some knowledge of those subjects. Reference: V. O. Key, A Primer of Statistics for Political Scientists. Pre-requisite: None. Co-requisite: None.

POL 300. COMPARATIVE GOVERNMENT. Pre-requisite: None. Co-requisite: None.

POL 306. INTRODUCTION TO INTERNATIONAL RELATIONS. Pre-requisite: None. Co-requisite: None.

POL 320. MODERN POLITICAL THOUGHT. Pre-requisite: POL 101. Corequisite: None.

POL 322. INTRODUCTION TO PUBLIC ADMINISTRATION. Pre-requisite: POL 100. Co-requisite: None.

Preventive 300. PREVENTIVE MEDICINE. A study of the problems and practices of Medicine preventive medicine. The subject matter reviews the historical development, and an introduction to demography and vital statistics. The basic aspects of infection and immunity are covered, followed by a discussion of the epidemiology of communicable diseases stressing prevention and control. Chronic diseases and accidents are dealt with. The public health aspect of nutrition is presented. A study is made of the trends in major health problems in Canada and other countries. Emphasis is placed on the epidemiological approach, and consideration is given to their control by individual and community action. Three hours a week, both terms.

Psychology

PSY 100. INTRODUCTORY PSYCHOLOGY. A full year course strongly recommended for all other Psychology courses. Instructors in all subsequent courses will assume the student has the background knowledge provided by PSY 100. The course surveys various areas of contemporary Psychology, its methods, problems and current status. Pre-requisite: None. Co-requisite: None.

PSY 202F. DEVELOPMENTAL PSYCHOLOGY: SOCIAL & PERSONALITY DEVELOPMENT. Social attachment, aggression, morality, identification, achievement. Suggested prior course: PSY 100. Pre-requisite: None. Corequisite: None.

PSY 203F. INTRODUCTION TO SOCIAL PSYCHOLOGY. A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, inter-personal relations, group processes, and ethnic attitudes. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 204F. PERSONALITY. Emphasis on empirical research, e.g. authoritarianism, need for achievement, manifest anxiety, self-concept. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 206F. INTRODUCTION TO LEARNING. This course provides a foundation to the area of conditioning and learning. It will focus on classical conditioning and instrumental learning and will be concerned with the problem of reinforcement, the phenomena of extinction, generalization, and discrimination. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 207S. INTRODUCTION TO LEARNING. This course will begin with a consideration of basic classical and instrumental conditioning phenomena but will go on to examine more cognitive interpretations. In the light of these considerations, a survey will be given of such more typically "human" areas as the development of speech, the acquisition and retention of verbal material, and various views on the nature of memory. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 209F. INTRODUCTION TO PHYSIOLOGICAL PSYCHOLOGY. Course will emphasize the relation of physiological and neurological information to the study of behaviour. Topics covered will be elements of neurophysiology, neuroanatomy, and research methodology in physiological psychology with a view to introducing the application of knowledge in these areas to our understanding of the behaviour of organisms. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 211F. MOTIVATION. Introduction to theories of motivation in humans and animals. Suggested prior course: PSY 100. Pre-requisite: None. Co-requisite: None.

PSY 301S. DEVELOPMENTAL PSYCHOLOGY: COGNITIVE & SENSORY DEVELOP-MENT. Learning, problem solving, thinking, concept formation with strong accent on Piaget's theory of cognitive development. Sensory competencies at birth and their development throughout the age span. Prerequisite: None. Co-requisite: None.

PSY 304S. SOCIAL PSYCHOLOGY: INTERPERSONAL BEHAVIOUR. Detailed analysis of some of the determinants and consequences of various forms of social comparison: conformity and social influence, social comparison, affiliation. Pre-requisite: None. Co-requisite: None.

PSY 306S. PERSONALITY & SOCIAL INTERACTION. Intensive examination of selected areas of research in personality, and social interaction. Discussions, papers, projects. Pre-requisite: None. Co-requisite: None.

PSY 317S. Suggested prior courses: 100, 207. PHYSIOLOGICAL PSYCHOLOGY: PHYSIOLOGY OF MOTIVATION. Physiological bases of basic motivational variables which energize and direct organisms' responses to its environment. Pre-requisite: None. Co-requisite: None.

Studies

Religious REL 100. RELIGIOUS TRADITIONS EAST AND WEST. A study of the ideas, attitudes, practices, and contemporary situation of the Judaic, Christian, Muslim, Hindu, Buddhist, Confusion, Taoist, and Shinto faiths.

> REL 230. THE ROLES OF RELIGION. An examination of both the positive and negative roles which religion has played and continues to play in man's process of maturation and the evolutive thrust of the universe. A general analysis of personhood and the inescapable need in authentic human living for self-transcendance. An examination of: the universal phenomenon of faith; religion as wonder; religion as meaning; religion as health.

Slavic Languages and Literature

NOTE: It is undesirable for a student to begin Russian and any other foreign language in the same year. Students may not enrol in any two of SLA 100, 205, 206, 207, 208 in the same year.

SLA 100. FIRST YEAR RUSSIAN. Fundamentals of Russian grammar. Practice in aural comprehension, speaking, reading and writing.

Course Descriptions

SLA 210. THE NINETEENTH CENTURY RUSSIAN NOVEL. Reading in translation of major works by Pushkin, Gogol, Turgenev, Goncharov, Dostoevsky, Tolstoy and others. The development of the novel as a literary form: structural and thematic evolution; native and foreign influences - Romanticism and realism. (NOTE:SLA 210 may not be combined with SLA 240 in any degree programme.) Pre-requisite: None. Co-requisite: None.

SLA 220. SECOND YEAR RUSSIAN. Review of morphology, syntax and the simple sentence. Reading of literary selections and works of nonfiction. Oral practice. Composition and conversation based on reading and topics of current interest. Pre-requisite: SLA 100. Co-requisite: None

SLA 240. THE NINETEENTH CENTURY RUSSIAN NOVEL. Same as SLA 210. but with some readings in Russian. Lectures in common with SLA 210 but separate tutorial groups. Required for specialists in Slavic Languages and Literatures. (NOTE: SLA 240 may not be combined with SLA 210 in any degree programme.) Pre-requisite: None. Co-requisite: SLA 220/ 221.

Sociology SOC 100. INTRODUCTION TO SOCIOLOGY. An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Pre-requisite: None. Co-requisite: None.

> SOC 101. CONTEMPORARY SOCIETY. An examination of contemporary society through the use of basic principles and methods of sociology. This course will meet in sections; each section will be devoted to a particular and crucial substantive aspect of contemporary society. Prerequisite: None. Co-requisite: None.

> SOC 201. METHODS OF SOCIAL RESEARCH. An introduction to the logic of research procedures, methods of collection, presentation and analysis of sociological data, including an elementary consideration of the principles of quantitative research. (NOTE: See pg. C-2.) Pre-requisite: None. Co-requisite: None.

Spanish SPA 100. SPANISH LANGUAGE FOR BEGINNERS. A basic introductory course which provides instruction in the spoken and written language. Laboratory training. The second term includes a study of leading contemporary authors of the Spanish-speaking world. (NOTE: SPA 100 may not be combined with SPA 120 in any degree programme.) Pre-requisite: None. Co-requisite: None.

Course Descriptions

SPA 100E. FIRST YEAR BASIC SPANISH COURSE. Designed for those who have had no previous background in Spanish. By the end of the year students should have acquired sufficient knowledge of the written and spoken language to be able to specialize in Spanish, if they wish. Emphasis will be placed throughout on the oral side of the work both in class and in the language laboratory.

SPA 120. MODERN SPANISH LITERATURE, LANGUAGE PRACTICE. A course for those with Grade XIII standing or equivalent in the subject. Some modern Spanish prose and poetic works are studied for their literary value and in relation to social and intellectual problems. Intensive written and oral practice is stressed. (NOTE: SPA 120 may not be combined with SPA 100 in any degree programme.) Pre-requisite: XIII SPA. Co-requisite: None.

SPA 230. INTERMEDIATE SPANISH LANGUAGE AND LITERATURE. Modern Spanish Literature and Language Practice. Offered 1969-70 only and primarily for students who have taken Spanish 100/123. Pre-requisite: Spanish 100/123. Co-requisite: None.

SPA 300. SURVEY OF SPANISH LITERATURE. Prescribed texts: Pattison, Representative Spanish Authors (2 vols., rev. ed.). Pre-requisite: Spanish 200.

SPA 301. SPANISH LITERATURE OF THE GOLDEN AGE. Composition. Oral practice. Prescribed texts. Pre-requisite: Spanish 201, 300.

Statistics STA 232. Introduction to statistics. Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. (NOTE: See pg. C-2.) Pre-requisite: MAT 110/130. Co-requisite: None.

Zoology ZOO 322. GENERAL AND HUMAN GENETICS. This course builds on the material on genetics introduced in BIO 100/120, with a more complete and detailed account. The subject matter will include classical genetics, molecular genetics, and mechanisms governing expression of genetically controlled characteristics. Human genetics serves to introduce this subject and is stressed throughout. BIO 100/120 is suggested as preparation. Pre-requisite: None. Co-requisite: None.

Refunds and Withdrawals

In order to become eligible for a refund of fees on withdrawing the student must write to the Division of University Extension and return his Admit-to-Lectures card for cancellation or alterations as the case may be. He must state specifically the date of his last attendance in the lecture(s) concerned.

A student is allowed a maximum of four weeks from the date of with-drawal to give notice. If he fails to follow the above instructions in full the amount of the refund will be reduced proportionately. In case the student neglects to state the date of withdrawal the postmark of his letter will be used as the effective date and requests for further consideration of the amount of the refund will not be considered. Merely ceasing to attend lectures, or informing the instructor though it is courteous to do this, does not constitute official withdrawal.

NOTE: Students who do not write the Final Examination or who withdraw from a course after February 15 of the Winter Session (November 15 for a half course taken in the Fall Session) or June 30 of the Summer Evening Session, except for medical or similar reasons, for which proof must be submitted, will be considered for purposes of re-enrolment to have failed to obtain standing in the course.

Credit will be retained for any half-course successfully completed and discredit noted for any half-course failed.

Subject Changes

Changes of subject, which are in accordance with the calendar regulations, will be dealt with as follows:

1. WINTER SESSION:

- (a) From the beginning of the session to October 15 granted if approved by the Assistant Director, Division of University Extension.
- (b) October 15 to November 1 granted if approved by the head of the teaching department concerned.
- (c) After November 1, granted only in exceptional circumstances.

2. SUMMER EVENING SESSION:

- (a) From the beginning of the session to June 1, granted if approved by the Assistant Director, Division of University Extension.
- (b) After June 1, granted only in exceptional circumstances.

3. SUMMER DAY SESSION:

- (a) From the beginning of the session to July 13, granted if approved by the Assistant Director, Division of University Extension.
- (b) After July 13, granted only in exceptional circumstances.

Procedure for Examinations

- The Annual (Spring) examinations in the Faculty of Arts and Science, the School of Nursing and the Faculty of Applied Science and Engineering will begin on April 20 and will continue for approximately three weeks. The August examinations will begin on Monday of the week following completion of Summer Session lectures.
- Students in the Division of University Extension are no longer required to submit applications for examinations for the subjects in which they are registered during either a Winter or Summer Session.

Only those listed below need apply:

- (a) Students who have been granted supplemental examination privileges.
- (b) Students who were unable to write at the usual examination period, but who have been granted exemption from the academic penalty and are permitted to write at a subsequent examination period.
- (c) Students who wish to write a subject at outside Centres.
- (d) Students who wish to rewrite a subject in which they have previously obtained standing for the purpose of upgrading their final mark.

NOTE: Engineering students are not normally granted permission to write supplementals. An Engineering student, may petition, however, if he is unable to write an examination at the specified time in order to write the examination at the next examination period.

- 3. Where applications for examinations are required they must be submitted by:
 - i) November 30 for the following Annual (Spring) examinations.
 - ii) July 10 for the following August examinations.
 - iii) A penalty fee of \$1 per day to a maximum of \$20 will be charged on all applications for examinations received after November 30, for the following Annual (Spring) examinations and July 10, for the following August examinations. Applications for examinations submitted more than 20 days past the due date will be accepted only in exceptional circumstances.

Students to whom above sections (a) and (b) apply will normally receive Application Forms from the Secretary, Faculty of Arts and Science or the School of Nursing when granted the privilege to write.

Students in category (c) and (d) must request that an Application Form be sent to them.

Failure to receive the Application Form in the mail does not absolve a student from the responsibility for submitting an Examination Application by the due date. Additional Application Forms may be obtained from the Division of University Extension.

- 4. Examinations for students registered in Extension are conducted by the Faculty of Arts and Science, the School of Nursing and the Faculty of Applied Science and Engineering. EXAMINATION NUMBERS under which candidates write will be mailed to students prior to the final examination. It is, therefore, extremely important that students notify the Division of University Extension of any change of address during the year. Students are required to show their admit-to-lectures cards when writing examinations.
- 5. The Annual examinations are held at the University and at the following centres: Banff, Calgary, Charlottetown, Edmonton, Fredericton, Halifax, Kapuskasing, Kenora, Kingston, Kirkland Lake, London (Ont.), London (Eng.), Montreal, North Bay, Ottawa, Port Arthur, Quebec, Regina, St. John's (Nfld.), Saskatoon, Sault Ste. Marie, Sudbury, Vancouver, Whitehorse (Yukon), Windsor, Winnipeg. Normally only students who have supplemental privileges and who are not in attendance in the session for which examinations are written, will be permitted to write at an Outside Center. Application to write at an Outside Centre must be made not later than the preceding November 30 for the Annual (Spring) examinations and not later than the preceding July 10 for the August examinations.
- 6. A provisional TIME-TABLE will be posted in buildings on the campus approximately two weeks prior to the period of examinations to permit students to report clashes. The final time-table will be posted in buildings on the campus about a week later. Copies of the time-table will be mailed to students. Although the time-table will be mailed to students, the Division of Extension takes no responsibility for the arrival of same. Every student is responsible for acquiring time-table information for himself. Information regarding dates of specific examinations cannot be given by telephone.
- 7. RESULTS of examinations will be mailed to each candidate.

Standing in a
Course
(Or
Half-Course)

(a) The following scale of marks is recommended for use in all courses and half-courses in all years:

ARTS AND SCIENCE NURSING		APPLIED SCIENCE AND ENGINEERING	
80 - 100%	A	75 - 100%	1
70 - 79%	В	66 - 74%	2
60 - 69%	С	60 - 65%	3
50 - 59%	D	50 - 59%	4
Below 50%	Fail	Below 50%	5

(b) In the case of half-courses, standing must normally be obtained in each half-course attempted. Marks in two half-courses may not be averaged to produce standing in a whole course-equivalent, except where the Department(s) concerned specify that this will be permitted for particular and stated combinations of two half-courses.

Term Marks and Examinations

Final examinations will normally be held in 100 series courses. The method of arriving at a final mark for each course (or half-course) will be decided by the Department offering the course. In those courses where final examinations are required these will be held in a final examination period arranged by the Faculty.

A student whose attendance at lectures or laboratories, or whose work is deemed by the council of the factulty to be unsatisfactory, may have his registration cancelled at any time by the council.

- A candidate will not be allowed to present himself for examination in any subject until he has paid fees in full, attended lectures in the subject during one academic session and has obtained a term mark.
- 2. All term assignments must be submitted before the beginning of the relevant examination period.
- The marks for term work in each subject will be determined in the manner considered to be most suitable by the department concerned.
- 4. The ratio of term marks to examination marks in each subject will be determined by the Department.
- 5. A student who does not write the final examination at the end of any session or who withdraws from a course after February 15 of the Winter Session (November 15 for a half course taken in the Fall Session) and August 1 of the Summer Day Session or June 30 of the Summer Evening Session, except for medical or similar reasons for which proof must be submitted, will be considered to have failed to obtain standing in the course.

6. Petitions for consideration with regard to the Annual (Spring) or August examination on account of sickness, domestic affliction, or other causes, must be filed with the Assistant Director, Division of University Extension, on or before the last day of the examination, together with a doctor's certificate which includes a statement that the candidate was examined at the time of the illness, or other evidence. These may be submitted before the end of the examination period in question.

A student who satisfies this requirement will normally be permitted to write the examination(s) at the next available examination period without academic penalty or payment of the supplemental examination fee. If the student does not write at that time or if he fails to achieve standing he shall forfeit his term mark(s) and be required to re-enrol. Aegrotat standing, i.e. standing in a subject or subjects without being required to write the final examination(s), is granted only once to any student and is seldom granted unless such standing is required to complete the degree programme.

- 7. A student is required to clear a condition by writing a supplemental examination during the next examination period. If standing in the subject has still not been obtained, the candidate must re-enrol in it, secure a new term mark, and write the examination under the same conditions. Should he not succeed in obtaining standing in these further attempts, he will not be allowed to take the subject again. NOTE: Engineering students will not normally be allowed supplemental privileges.
- 8. A student who fails a subject should consult the Department concerned with respect to the content of that subject before rewriting the examination.
- No special examination will be set in any subject because of change in its content.
- 10. Students will be refused the privilege of going over their final examination papers with the examiners concerned. However, students may petition to have their examination marks re-checked on the payment of a fee of \$5.00 per subject. This fee will be refunded if an error in reporting a mark is detected.
- 11. Students may rewrite one or more subjects in which they have standing in order to obtain a higher grade in those subjects, provided that they do so only on one occasion and within five years of the first examinations in them.
- 12. An Engineering student may not re-write any examinations. He may, however, repeat up to two different courses in order to improve his overall average; the student may repeat one course only once.

Course **Options** Students who wish to enrol in fewer than five courses at any time may be admitted to the Division of Extension. Such a student will normally register in Winter Evening courses or Summer Day or Evening courses. but may, with the permission of the Assistant Director of Extension, enrol in Winter Day courses.

Mature Students on Probation

Candidates accepted by the Senate's Committee on Admissions as mature students are admitted on probation.

(Arts & Science)

A mature student, registered in a degree programme in the Division of University Extension, who does not meet in full the published admission requirements, and who has been admitted as a mature student on probation, must obtain standing on the initial attempt in at least three of his first five subjects in order to have his probationary status removed. If the student fails more than three of his first five subjects, he will not be allowed to re-register in any degree course in the University of Toronto until he presents in full the published admission requirements.

(Nursing)

A mature student in Nursing registered in the Division of University Extension, who does not meet in full the published admission requirements, and who has been admitted as a mature student on probation, must obtain standing on the initial attempt in at least five of his first six subjects in order to have his probationary status removed. If the student fails more than one of his first six subjects, he will not be allowed to re-register in any degree course in the University of Toronto until he presents in full the published admission requirements.

NOTE: A student on probation who fails to obtain standing in one subject and subsequently successfully passes the supplemental examination in that subject is nonetheless considered to have once failed to obtain standing.

Refused Further Registration in the Faculty

A student will be refused further registration in the Faculty if:

- (a) he fails four courses in his first ten attempts, and at the time of his fourth failure has an average in all courses attempted of less than 55%, or
- (b) he fails five courses in his first fifteen attempts, or
- (c) he fails six courses

NOTE: Failed supplemental examinations do NOT count as second failures.

Appeals A student wishing to appeal to the Senate against a decision of a Faculty Council should consult the Assistant Director of the Division of University Extension about the preparation and submission of his petition to the Secretary of the Senate.

University Extension Programmes

The Division of University Extension offers many other courses, institutes and public lectures. Readers of this Calendar are invited to ask about:

CERTIFICATE COURSE IN BUSINESS Providing instruction in the basic principles of modern business. This course is designed for mature men and women in Business, Industry, and in the Civil Services who are in, or working toward, positions of responsibility. One or two of six subjects may be undertaken each year. Six are required for graduation.

CERTIFICATE COURSE IN PUBLIC ADMINISTRATION Is intended primarily for those with considerable experience in the public service who wish to acquire a broader background in the political and social sciences essential to an understanding of the executive branch of government and its functions. It is not intended as preparation for those planning to enter public service. Emphasis is on Canadian government at all levels (federal, provincial and municipal), and their major problem areas. One or two subjects may be taken each year with six subjects required for graduation.

CERTIFICATE COURSE IN CRIMINOLOGY This course is intended for those with considerable experience in the fields of law enforcement, criminology, adjudication, and the correctional services who wish to deepen their knowledge and understanding of criminology in its various aspects. It examines some of the basic problems of crime, the administration of criminal justice, and the treatment of offenders. One or two subjects may be taken each year with six subjects required for graduation.

EVENING AND AFTERNOON COURSES IN THE LIBERAL ARTS Provide a wide range of cultural and non-technical courses in the liberal Arts for those who are not seeking credit toward certificates, diplomas, or degrees.

THE FRENCH SUMMER SCHOOL—SAINT-PIERRE ET MIQUELON Offers noncredit and advanced oral French. Its purpose is to develop the student's ability to speak French and widen his experience of French life and culture through the daily, natural use of the language. Saint-Pierre offers an exceptional opportunity for the student to put into immediate practice what he has just learned in the classroom. In this sense French becomes truly a living language. For the student who cannot go to France this summer, Saint-Pierre et Miquelon offers at a fraction of the cost the next best opportunity to experience a memorable and profitable holiday on French soil. Classes are held each morning of the week except Saturdays and Sundays, in Le Collège St. Christophe on the Island of Saint-Pierre.

University Extension Programmes

BUSINESS AND PROFESSIONAL COURSE The purpose of this programme of studies is to assist men and women in business or other organizations to better understand the nature of organization and how they are managed; to learn more about areas of management such as finance, marketing, personnel, production, etc.; to improve their professional understanding of the new technical and mathematical theories and activities which have come to the fore in recent years and to acquire some knowledge of other skills requisite to their current or future work needs. Courses are offered in the following general areas: accounting, administration, management, data processing, industrial psychology, operations research, business law, finance, taxation, economics, personnel administration, marketing, mathematics, statistics ,computer programming, stochastic processes, and nuclear engineering.

CORRESPONDENCE COURSES are conducted for the Association of Administrative Assistants, the Canadian Credit Institute, the Canadian Institute of Realtors, the Canadian Institute of Traffic and Transportation, the Chartered Institute of Secretaries, the Association of Professional Engineers, the Ontario Association of School Business Officials, and the International Association of Personnel in Employment Security, and the Chemical Institute of Canada.

PRE-SCHOOL EDUCATION The University of Toronto in co-operation with The Nursery Education Association of Ontario offers a three-part course for the preparation of teachers in pre-school education.

University of Toronto Calendars

The University of Toronto issues the following calendars and other publications concerning courses of instruction given by the University, any one of which may be had on application to the Office of Admissions of the University. or to the Secretary of the Faculty, School or Institute about which information is sought.

GENERAL INFORMATION— ADMISSION INFORMATION— Admission Awards

University of Toronto Handbook Admission Circular

APPLIED SCIENCE AND ENGINEERING-

Faculty of Applied Science and Engineering Engineering at Toronto—descriptive

ARCHITECTURE-

brochure Diploma Course in Operations Research Faculty of Architecture, Urban and Regional Planning and Landscape

Architecture

Landscape Architecture—descriptive

brochure Graduate Work in Architecture—descriptive

ARTS AND SCIENCE—

brochure Faculty of Arts and Science

Courses and Subjects in Arts and Science

BUSINESS-

Diploma Course in Computing and Data Processing

CHILD STUDY— DENTISTRY-

EXTENSION—

School of Business—Graduate Programme in Business Administration

Institute of Child Study Faculty of Dentistry

Division of Postgraduate Dental Education

Division of Dental Hygiene The College of Education

EDUCATION—

FOOD SCIENCES— FORESTRY-

GRADUATE STUDIES—

LIBRARY SCIENCE—

Graduate Degrees in Education* Degree Courses in Arts & Science, Nursing, & Applied Science & Engineering Certificate Courses in Business, Public

Administration, Criminology and Public Health Nursing

Courses in the Liberal Arts and Social Sciences (Non-Degree)

Business, Engineering and other Professional Courses (Non-Degree)

Faculty of Food Sciences Faculty of Forestry

School of Graduate Studies

School of Hygiene Faculty of Law

School of Library Science Faculty of Medicine

Division of Rehabilitation Medicine

Division of Postgraduate Medical Education

Faculty of Music

The Royal Conservatory of Music School of Music Year Book General Syllabus

Pianoforte and Theory Syllabus

School of Nursing Faculty of Pharmacy

NURSING-

MUSIC-

HYGIENE-LAW-

MEDICINE-

PHARMACY-PHYSICAL AND HEALTH EDUCATION— SOCIAL WORK—

School of Physical and Health Education School of Social Work

^{*}Write to: Ontario Institute for Studies in Education, 102 Bloor Street West. Toronto 5, Ontario.

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TO COURSES AND SUBJECTS:

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Actuarial Science	ACT	(Mathematics)
Akkadian	NLA	(Near Eastern Studies)
Anthropology	ANT	
Applied Mathematics	APM	(Mathematics)
Arabic	ISL	(Islamic Studies)
Aramaic	NLA	(Near Eastern Studies)
Astronomy	AST	
Biology	BIO	
Botany	BOT	
Chemistry	CHM	
Chinese	EAS	(East Asian Studies)
Commerce	COM	(Political Economy)
Computer Science	CSC	(Mathematics)
Czech and Slovak	SLA	(Slavic Languages and Literatures)
Economics	ECO	(Political Economy)
Egyptian	NLA	(Near Eastern Studies)
English	ENG	
Ethics	PHL	(Philosophy)
Fine Art	FAR	
French	FRE	
Geography	GGR	
Geology	GLG	
German	GER	
Greek	GRK	(Classical Studies)
Greek and Latin Literature	GLL	(Classical Studies)
Greek and Roman History	GRH	(Classical Studies)
Hebrew	NLA	(Near Eastern Studies)
Hellenistic Greek	NLA	(Near Eastern Studies)
Hindi	EAS	(East Asian Studies)
History	HIS	
History and Philosophy of Science	HPS	
Indian Studies	EAS	(East Asian Studies)
Innis College	CIN	(Last Asian Studies)
Islamic Studies	ISL	
Italian	ITA	(Italian and Hispanic Studies)
Japanese	EAS	(East Asian Studies)
Latin	LAT	(Classical Studies)
Linguistics	LIN	(See also Anthropology)
Mathematics	MAT	(100 mag 100 m
Microbiology	MBL	
Music	MUS	•
Near Eastern History	NEH	(Near Eastern Studies)
Near Eastern Languages	NLA	(Near Eastern Studies)
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Philosophy	PHL	
Philosophy	PHL	
(St. Michael's College)		

PHY (Slavic Languages and Literatures) **Physics**

(Political Economy) SLA Polish

Political Science POL **PSY** Psychology Religious Studies REL Russian SLA

Sanskrit EAS (Slavic Languages and Literatures)

Serbo-Croatian SLA (East Asian Studies)

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Statistics STA (Mathematics)

(Near Eastern Studies) Syriac NLA Turkish (Islamic Studies) ISL

Ukrainian SLA (Slavic Languages and Literatures)

(Islamic Studies) Urdu ISL

Zoology 7.00

TO DEPARTMENTS, DISCIPLINES AND PROGRAMMES:

Actuarial Science

Anthropology

Applied Mathematics

Astronomy Biology Botany Chemistry Chineses Studies Classical Studies

Classics

Commerce and Finance Computer Science East Asian Studies

Economics

English Language and Literature

Fine Art

French Language and Literature

Geography Geology German Greek History

Indian Civilization Islamic Studies

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Latin

Latin American Studies

Linguistics Mathematics

Music

Near Eastern Studies

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Sociology Spanish Statistics Zoology

